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**THE JOURNAL OF RESEARCH  
ON THE LEPIDOPTERA**

**A Catalogue  
of the Butterflies  
of the United States  
and Canada**

with a complete bibliography  
of the  
descriptive and systematic  
literature

by

**Jonathan P. Pelham**

# THE JOURNAL OF RESEARCH ON THE LEPIDOPTERA

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A CATALOGUE  
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DESCRIPTIVE AND SYSTEMATIC LITERATURE

by

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## PROLOGUE

Twenty-seven years have passed since the publication of *A Catalogue/Checklist of the Butterflies of America North of Mexico* by Lee D. Miller and F. Martin Brown (1981). Since its publication, hundreds of books and journal articles on the taxonomy and systematics of the butterflies of the United States and Canada have appeared, new species in the region have been discovered and described, and many new names have been proposed to represent geographic variation displayed by North American butterflies. In addition, previously undocumented species have been found in Texas, New Mexico, and Arizona, on an almost yearly basis, as strays from Mexico, or as breeding populations at the northern edges of their current ranges. The same twenty-seven years has seen tremendous improvements in our understanding of higher-level relationships (of tribes, subfamilies and families) among the world's butterfly fauna, largely thanks to advances in biotechnology and data analysis, which have enabled a number of detailed molecular phylogenetic studies. This wealth of new information on the butterflies of the United States and Canada has made clear the need for an updated systematic and bibliographic catalogue treating the entire fauna.

This volume is the result of over 20 years of intensive labor by the author, Jonathan Pelham, who has gone through the extraordinary effort to personally examine every literature source related to North American butterflies (save a very few that proved too rare to be accessed), including the original descriptions of every taxon occurring in the region. As a result, Jon is perhaps more knowledgeable of the literature on North American butterflies than any other person, and is also extremely familiar with the Neotropical and Palaearctic literature on butterflies. Coupled with this vast bibliographic knowledge, Jon has extensive field experience with butterflies (adults and immatures) in many parts of the North American continent, and has an intimate knowledge of the Code of Zoological Nomenclature. These unique qualities, in addition to his incredible determination and perseverance, have all been critical during the compilation of this Catalogue.

As editor of this volume, I have enjoyed the undeniable privilege of being able to work with the contents of the Catalogue over the past two years, during its peer and editorial review periods, and preparation for publication. I already consider this Catalogue to be absolutely indispensable in my daily life as a Lepidopterist, due not only to the details in the body of the Catalogue, but also because of the massive bibliography, an invaluable resource for every student of North American butterflies, now and in the future. It is my hope that this Catalogue will find its way onto the bookshelves of everyone interested in North American butterflies, for nowhere else will you find a modern "all in one" resource on their taxonomy, systematics, and bibliography. This document represents a milestone in our understanding of the butterflies of the United States and Canada, and forms a solid foundation upon which future discoveries and philosophies can easily be incorporated. We are all very much indebted to Jonathan Pelham, for bringing this Catalogue to fruition.

Andrew D. Warren, PhD

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## PREFACE

This document is a compilation of all the names applied to butterflies of the United States of America and Canada as of June 2006. The names are arranged in taxonomic order from family to species, and ancillary details are given for each, including the original description, original combination, type-locality, deposition of primary type(s) when known, and annotations when pertinent to their placement within the body of the catalogue. Great effort has been made to include every name that has been applied to a butterfly occupying this geographic region, and to ensure that information provided for each name is accurate. More than twenty years have been spent compiling this volume. Dozens of libraries and collections have been consulted, and a thorough investigation of the literature has been conducted, including the great volume of recent literature. In addition, I have relied heavily on my colleagues for information and advice.

The immediate predecessor to this catalogue is the "Catalogue/Checklist of the Butterflies of America North of Mexico" by Lee D. Miller and F. Martin Brown (1981). That work was preceded by William F. Kirby's "Synonymic Catalogue of the Diurnal Lepidoptera" published in 1871 (with its supplement in 1877), Herman Strecker's "Complete Synonymical Catalogue of Macrolepidoptera," published in 1878, and Seitz, "Die Gross-Schmetterlinge der Erde, vol. 5" (1907-1924). These are the only complete catalogues of the butterfly fauna of the United States and Canada. In preparing this catalogue, Miller & Brown (1981) provided the foundation upon which to build, and their work is cited throughout. Some features of style and format of this catalogue have been adopted from Miller & Brown, but the systematic format employed here, including most of the family-level, genus-level and species-level arrangements, follows Opler & A. Warren (2002). Deviations from Opler & A. Warren are mostly the result of information published since 2002. Every year, new information on the taxonomy and systematics of North American butterflies is presented, and any taxonomic catalogue becomes dated upon publication and delivery. I acknowledge this with the expectation that such works, opinions and contributions rendered in the future may be incorporated in perennial updates, in the hope that this catalogue may remain current and diverse opinions may be collated and documented.

## INTRODUCTION

The purpose of this work is to systematically enumerate all taxa that have been recorded within the boundaries of the United States of America and Canada. This catalogue is not intended to serve as a taxonomic revision of the butterflies in this region, and provides no solutions to difficult taxonomic issues; it is a compilation; a bibliographic and Code compliant endeavor. Every effort has been made to avoid making revisionary decisions on the status of taxa, but in a work of this type, some revision is inevitable.

The Merriam-Webster Online Dictionary (<http://www.m-w.com/>) includes among its definitions of a catalogue “A complete enumeration of items arranged systematically with descriptive details.” Mayr (1969) defined a taxonomic catalogue as “An index to taxonomic literature arranged by taxa...” This catalogue goes one step further by including a complete bibliography of the systematic literature pertaining to the butterflies of the region. The catalogue enumerates the 800 butterfly species from the United States of America and Canada, distributed within 234 genera, including all subspecific and infra-specific names, synonyms, and emendations. In addition, appendices of species and names no longer included in the covered region are provided.

## NOMENCLATURE

It is impossible to systematically arrange any group of organisms in a manner agreeable to all, and the popularity of butterflies has amplified divergent opinions on their taxonomy and nomenclature. There have been and will continue to be disagreements over what constitutes a family, subfamily, tribe, genus and species. However, thanks to the last decade of phylogenetic studies on the higher-level systematics in butterflies, which have employed molecular and morphological sources of data, the family-level nomenclature for North American butterfly taxa is arguably better resolved than arrangements at the genus- and species-level. The comments below provide some personal and historical perspective on these matters, insofar as they relate to the present catalogue.

### Family-level arrangement

Paul Ehrlich's (1958) “The comparative morphology, phylogeny and higher classification of the butterflies” provided the foundation upon which subsequent higher-level studies of Papilionoidea have evolved (although this study did not include Hesperioidea). This arrangement was popularized in Paul and Anne Ehrlich's (1961) “How to Know the Butterflies”. In the arrangement of families, if not sequence, the present catalogue follows Ehrlich (1958) as modified by Eliot (1973), de Jong *et al.* (1996), Ackery *et al.* (1999), Brower (2000, 2006), Wahlberg and Nylin (2003), Wahlberg *et al.* (2003b, 2005b), Freitas and Brown (2004), Braby *et al.* (2006), Peña *et al.* (2006), and Niklas Wahlberg's website, which is regularly updated. The higher-level arrangement of Hesperioidea follows A. Warren (2006). Through these studies, a general consensus on the number and composition of butterfly families has emerged (Wahlberg, *et al.* 2005a). It seems unlikely that future arrangements will diverge significantly from the family-level arrangement presented here.

### Genus-level arrangement

Butterflies have received close attention from taxonomists, both professional and amateur, and many generic names have been generated as a result. A comparison between butterfly generic nomenclature and its structural-morphological foundations, and those of almost any other group of organisms, demonstrates that there is little justification for the dissolution of large genera like *Callophrys*, *Plebejus* and *Papilio*, simply because they are “species rich” and display a great diversity of wing phenotypes. The generic nomenclature employed here generally follows the works of Clench (1961, 1970b), Eliot (1973), J. Miller (1987), Gorbunov (2001), and Opler and A. Warren (2002) among others, although some discrepancies exist. Some attempt has been made to accommodate those who accept division of some large genera, including *Papilio* and *Callophrys* into smaller units by employing subgenera throughout the catalogue, despite questionable monophyly of many of these subgenera. This is a subjective matter and it is appreciated that the catalogue might be considered biased in this respect, while allowing for differing interpretations.

## Species-level arrangement

As noted above, the species-level arrangement in this catalogue largely follows Opler and A. Warren (2002), as modified by subsequent studies. At the species level, the introductory section of Opler and A. Warren (2002) is instructive. They noted, “Some of the more popular species concepts held by taxonomists today don’t even recognize subspecies.” That said, a catalogue arranged according to any criterion excluding subspecies would be unsatisfactory to many users. Therefore, the subspecies category is employed in this catalogue without regard to its validity. It must be noted that defining species and subspecies boundaries remains contentious, even among those sharing species concepts. Defining an objective measure for “what is a species?” is remote from the aim of this catalogue.

## Zoological Nomenclature

The International Commission of Zoological Nomenclature has produced a body of rules, updated and revised periodically, defining how names are to be treated in the context of zoological nomenclature. The most recent edition is “The International Code of Zoological Nomenclature, Fourth Edition”, published in 1999 (hereafter referred to as ‘the Code’). These “rules” define nomenclatural protocol and are cited throughout. Application of the Code is guided by two main objectives: “...to promote stability and universality in the scientific names of animals and to ensure that the name of each taxon is unique and distinct.” This catalogue complies with the Code in all respects save one. The single divergence relates to the conformation of the gender of specific names with the gender of the genus in a binomen (Code Articles 31.2 and 34.2). Problems associated with these code articles were discussed in detail by Lamas (2004b: xv-xvi). In cases where the emendation of names in order to conform with Articles 31.2 and 34.2 of the Code seems clear and is not in dispute, a note is appended to the discussion of that name, indicating its conformed spelling (synonyms and unavailable names are not included in such cases). However, species-level names used in this catalogue reflect their original orthography.

## Catalogue Format

The systematic arrangement of the catalogue is intuitive once a few principles are stated. Each specific entry is numbered sequentially; genera and subgenera are not numbered. Subspecific entries for each species are indented once, and are preceded by lower-case Roman letters in alphabetical sequence. Dates in brackets indicate that these have been subsequently determined from sources external to the original document. Misspellings are excluded except where they have been widely used or misinterpreted. All nomina nuda are included in the body of the catalogue. Annotations are included where appropriate. Alternative taxonomic arrangements (e.g., Durden 1982 or Scott 1986), are indicated in many cases. Synonyms are listed under each valid name.

### Genus-level synonymies:

- The synonyms of each genus-level name are arranged so that:
- = subjective synonyms
  - these are not indented, are preceded by an “=” symbol, and are italicized.
- = ‡permanently invalid synonyms
  - (e.g., homonyms, objective synonyms, unjustified replacement names, etc.) These are indented once, preceded by an “=” symbol, a double dagger symbol, and are italicized.
  - ‡”nomina nuda”
    - these are indented once, placed in quotes, preceded by a double dagger symbol (but not an “=” symbol), and are not italicized.

### Species-level synonymies:

The synonyms of each species-level name are arranged so that:



- = subjective synonyms  
these are not indented, are preceded by an “=” symbol and are italicized.
- = ‡permanently invalid synonyms  
(e.g., homonyms, objective synonyms, unjustified replacement names, etc.) These are indented once, preceded by an “=” symbol and a double dagger, and are italicized.
- = ‡“unavailable names”  
(e.g., forms, aberrations, quadrinomials, etc.) These are indented once, placed in quotes preceded by an “=” symbol and a double dagger, and are not italicized.
- ‡“nomina nuda”  
these are indented once, placed in quotes, preceded by a double dagger symbol (but not an “=” symbol), and are not italicized.

Species for which the nominate subspecies does not occur in the area covered have an asterisk “\*” preceding the nominate entry. The symbol “†” is employed where a taxon is considered extirpated from the region covered.

### Subspecies-level arrangement

The arrangement of subspecies under each polytypic species follows a north to south or east to west geographic arrangement, similar to that presented in Howe (1975), so that geographically contiguous populations appear next to each other in the catalogue. This may appear arbitrary in situations where taxa are arrayed along both the Sierra Nevada-Cascade, and the Rocky Mountains, but it is preferable to a sequence that is either alphabetic or based on name seniority.

## PRELIMINARY NOTES

In the process of constructing this catalogue I encountered certain difficulties regarding the proper citation, dating, or authorship of certain works, location of type specimens, and the spelling of one man’s name. Most of these issues have been dealt with in the body of the catalogue and bibliography; others are detailed below.

### Location of types

Generally, information on the location of type specimens has been extracted from original descriptions. However, many older descriptions did not indicate the deposition of types, and in some cases, the actual deposition of types differs from that noted in the original description. For a large number of taxa, the location of type material remains unknown. While no special efforts have been made to verify information on the deposition of types, several colleagues have been of great help in this regard, and two websites have been useful.

ANSP Insect Type Collection

([http://data.acnatsci.org/biodiversity\\_databases/insects.php?mode=hightaxa](http://data.acnatsci.org/biodiversity_databases/insects.php?mode=hightaxa)), and Harvard University’s MCZ Type Database

<http://mcz-28168.oeb.harvard.edu/mcz/FMPro?-db=Species.fm&-lay=web&-format=search.htm&-view>

F. M. Brown (1974b) detailed the holdings of the butterfly type material in the ANSP and stated “Several years ago the Academy of Natural Sciences, Philadelphia, exchanged its butterfly collection with the Carnegie Museum of natural History.” The ANSP website details the specimens that would have been involved in such an exchange as if they are still at ANSP. I treat these as if they are still extant at the ANSP.

### John Eatton Le Conte

John Calhoun (2005b) recently published the complete history of the misspelling of this man’s name. The citation which was from Rehn (1954) employed by Opler and A. Warren (2002) is incorrect and this has been remedied in the catalogue.

### The “Entomologische Beyträge...”

This work was published by Johann A. E. Goeze, between 1777 and 1783. The text proposed names for



many butterfly taxa that would be listed in the fauna of the United States of America and Canada, were they “properly” described. In most cases Goeze proposed names for figures given by Albertus Seba in his great work “...Locupletissimi rerum naturalium...” I agree with Gerardo Lamas (pers. comm. 2006) that Goeze’s combinations are not consistently binomial (often polynomial), and that the names given there for our butterflies are therefore unavailable and not a part of zoological nomenclature. I have not included any of these names in the catalogue.

### **The “Uitlandische Kapellen...”**

There are various issues concerning the binominality, date of publication and authorship of various parts of the “Uitlandische Kapellen...” of Pieter Cramer and Caspar Stoll. Opinion 516 (ICZN, 1958) addressed some of these issues but some outstanding difficulties remain. First is the issue of authorship. It is currently accepted that Cramer was responsible for text and plates through volume 4 (pages 1-28, plates 289-304), and that Stoll was responsible for the remainder of volume 4 and the supplement. There is, however, another issue. It was suggested by dos Passos (1959) that many text entries are non-binomial, that is, the species names as presented are not associated with a generic name in the immediate text. All names are binomial in the index, so dos Passos considered that in cases where a name was not assigned a genus in the text, it was properly described in the index (and dated names accordingly). This issue was closely examined. Strict adherence to the rules creates a particular difficulty. According to the Code (Article 11.4.3), those taxa judged not to be binomial in the text must be dated from the index, and for volumes 3 and 4 this transfers authorship to Stoll. This is unsatisfactory from the point of view of the cataloguer and nomenclator. On advice from Gerardo Lamas (pers. comm. 2006), and based on Chainey (2003, 2005), authorship and date for names in “Uitlandische Kapellen...” are given from the text, but the original combination from the index is cited. If the Commission supports this procedure, no further changes to these names will be necessary.

### **Papilio (New Series) 12**

This volume (Scott 2006a) was issued late in the process of preparing the catalogue, and proposed some major changes in butterfly nomenclature for the region covered. All new names coined in this volume have been faithfully recorded herein, though often in a combination different from that originally proposed. Many of the taxonomic changes suggested in this volume (which was not peer-reviewed) were not thoroughly researched, are based on erroneous or incomplete information, and are difficult to interpret. Time is needed for proper review, evaluation, and discussion of changes proposed in this volume.

### **Abbreviations**

Abbreviations of periodical titles have been variable in many of the sources consulted. The ‘World list of scientific periodicals’ (1963-1965) is useful for some older journals, but various websites; (e.g., <http://library.caltech.edu/reference/abbreviations/>; [http://apps.isiknowledge.com/WoS/help/A\\_abrvjt.html](http://apps.isiknowledge.com/WoS/help/A_abrvjt.html); <http://home.ncifcrf.gov/research/bja/>) have provided a baseline for newer journal abbreviations that seems widespread. In all cases ‘entomology’ and ‘entomological’ are abbreviated ‘entomol.’ and ‘Lepidoptera’ and ‘lepidopterological’ are abbreviated ‘lepid.’ The abbreviation ‘Nat.’ may apply to ‘natural’, ‘naturalist’, ‘national’, and is always capitalized. The abbreviation of book titles is more problematic. Throughout the catalogue, I have employed the abbreviations used by Bridges (1988, etc.), and have employed similar practices for journals and book titles that have not been previously abbreviated. Great effort has been made to standardize abbreviations throughout the catalogue, but some inconsistencies undoubtedly remain; for these I apologize.

### **Acronyms**

At one time it was thought that the summary work of Heppner and Lamas (1982) was sufficient for determining the acronyms of museums and collections. Several reviewers have since noted the awkwardness and novelty of NMNH for the collections housed in the National Museum of Natural History, Washington D.C., and NHML for the Natural History Museum, London. I have adhered to the older and widespread

use of USNM and BMNH, respectively, for these two institutions. These and the remainder of the acronyms employed in the catalogue are detailed below, and at the Bishop Museum's website: (<http://hbs.bishopmuseum.org/codens/codensearch.html>).

**AMNH:** American Museum of Natural History, New York, New York, USA

**ANIC:** Australian National Insect Collection, CSIRO, Canberra City, Canberra, Australian Capital Territory, Australia

**ANSP:** Academy of Natural Sciences, Philadelphia, Pennsylvania, USA; most of the butterflies went to CMNH

**BCPM:** Royal British Columbia Museum [British Columbia Provincial Museum], Victoria, British Columbia, Canada

**BMBN:** Booth Museum of Natural History, Brighton, England

**BMNH:** The Natural History Museum [formerly British Museum (Natural History)], London, England

**BYU:** Monte L. Bean Life Science Museum, Brigham Young University, Provo, Utah, USA

**CAS:** California Academy of Sciences, San Francisco, California, USA

**CMNH:** Carnegie Museum, Pittsburgh, Pennsylvania, USA (most of the ANSP butterflies now in CMNH)

**CNC:** Canadian National Collection of Insects, Agriculture Canada, Ottawa, Ontario, Canada

**CSUC:** Colorado State University, Fort Collins, Colorado, USA

**CUIC:** Cornell University Insect Collection, Ithaca, New York, USA

**DEI:** Deutsches Entomologisches Institut im ZALF, Müncheberg, Germany

**DCM:** Dartmouth College Collection, Hanover, New Hampshire, USA

**DCMP:** Universidade Federal do Paraná, Curitiba, Paraná, Brazil

**DMNH:** Denver Museum of Natural History, Denver, Colorado, USA

**DSM:** Darwin State Museum, Moscow, Russia

**DZUP:** Universidade Federal do Paraná, Museu de Entomologia Pe. Jesus Santiago Moure, Paraná, Curitiba, Brazil

**EMAU:** Ernst Moritz Arndt Universität, Greifswald, Germany

**EMEC:** Essig Museum of Entomology, University of California, Berkeley, California, USA

**FMNH:** Field Museum of Natural History, Chicago, Illinois, USA

**HMUG:** Hunterian Museum, University of Glasgow, Glasgow, Scotland

**HNHM:** Termesztudományi Múzeum [Hungarian Natural History Museum], Budapest, Hungary

**EIHU:** Entomological Institute, Hokkaido University, Sapporo, Japan

**EUM:** Emory University Museum, Atlanta, Georgia, USA

**ICNB:** Instituto de Ciencias Naturales, Bogotá, Colombia

**IMLA:** Fundación e Instituto Miguel Lillo, Universidad Nacional de Tucumán, San Miguel de Tucumán, Argentina

**INHS:** Illinois Natural History Survey, Champaign (Urbana), Illinois, USA

**IRSN:** Institut Royal des Sciences Naturelles, Brussels, Belgium

**IPBV:** Institute of Biology and Soil Sciences, Russian Academy of Sciences, Far East Branch, Vladivostok, Russia

**IZAC:** Academia de Ciencias de Cuba, Instituto de Zoología, Havana, Cuba

**LACM:** Los Angeles County Museum of Natural History, Los Angeles, California, USA

**LEM:** Lyman Entomological Museum, McGill University, Ste. Anne de Bellevue, Quebec, Canada

**LNKD:** Landesammlungen für Naturkunde, Karlsruhe, Germany

**LSUK:** Linnean Society, London, England

**MACN:** Museo Argentino de Ciencias Naturales "Bernardino Rivadavia," Buenos Aires, Argentina

**MAMU:** Macleay Museum, University of Sydney, Sydney, New South Wales, Australia

**MCPM:** Milwaukee City Public Museum, Milwaukee, Wisconsin, USA

**MCSN:** Museo Civico di Storia Naturale "Giacomo Doria," Genova, Italy

**MCZ:** Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA

**MGCL:** McGuire Center for Lepidoptera and Biodiversity; Gainesville, Florida, USA; including: Allyn Museum of Entomology, Sarasota; Florida Museum of Natural History, Gainesville; University of Florida, Gainesville; Florida State Collection of Arthropods, Florida Department of Agriculture and Consumer Services, Gainesville.



**MHNG:** Muséum d'Histoire Naturelle, Geneva, Switzerland  
**MHNS:** Museo Nacional de Historia Natural, Santiago, Chile  
**MLPA:** Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata, La Plata, Argentina  
**MRAC:** Musée Royal de l'Afrique Centrale, Tervuren, Belgium  
**MNHP:** Muséum National d'Histoire Naturelle, Paris, France  
**MNHC:** Museo Nacional de Historia Natural, Habana [=Havana], Cuba  
**MNMS:** Museo Nacional de Ciencias Naturales, Madrid, Spain  
**MSNM:** Museo Civico di Storia Naturale, Milano, Italy  
**MTD:** Staatliches Museum für Tierkunde, Dresden, Germany  
**MUSM:** Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru  
**MWNH:** Staatliches Museum Wiesbaden, Department of Natural Science, Wiesbaden, Germany  
**MZUF:** Museo Zoologico "La Specola", Firenze, Italy  
**NHMB:** Naturhistorisches Museum, Basel, Switzerland  
**NMW:** Naturhistorisches Museum, Wien, Austria  
**NHRS:** Naturhistoriska Riksmuseet, Stockholm, Sweden  
**NMID:** National Museum of Ireland, Dublin, Ireland  
**NVMC:** Nevada State Museum, Carson City, Nevada, USA  
**NYSM:** New York State Museum, Albany, New York, USA  
**OSAC:** Oregon State University, Corvallis, Oregon, USA  
**OSU:** Ohio State University, Columbus, Ohio, USA  
**PMNH:** Peabody Museum of Natural History, Yale University, New Haven, Connecticut, USA  
**RMNH:** Nationaal Natuurhistorische Museum ("Naturalis") [Rijksmuseum van Natuurlijke Historie], Leiden, Netherlands  
**RPM:** Reading Public Museum, Reading, Pennsylvania, USA  
**RSME:** National Museums of Scotland, Edinburgh, Scotland  
**SDMC:** San Diego Natural History Museum, San Diego, California, USA  
**SEMC:** Snow Museum of Entomology, University of Kansas, Lawrence, Kansas, USA  
**SIIS:** Staten Island Institute of Arts and Sciences, New York, New York, USA  
**SMF:** Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt-am-Main, Germany  
**SMNS:** Staatliches Museum für Naturkunde, Stuttgart, Germany  
**SZMN:** Biological Institute, Siberian Department, Academy of Sciences; Novosibirsk, Russia  
**UCDC:** R.M. Bohart Museum of Entomology, University of California, Davis, California, USA  
**UCMC:** University of Colorado, Boulder, Colorado, USA  
**UMO:** University Museum of Natural History, Oxford, United Kingdom  
**UNAM:** Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, Mexico  
**UNSM:** University of Nebraska State Museum, Lincoln, Nebraska, USA  
**USNM:** National Museum of Natural History [formerly United States National Museum], Smithsonian Institution, Washington, D. C., USA  
**UTR:** University of Tomsk, Tomsk, Russia  
**UZIU:** Universitets Zoologiska Institut, Uppsala, Sweden  
**ZIN:** Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia  
**ZMHB:** Museum für Naturkunde der Humboldt Universität Zoologisches Museum, Humboldt Universität, Berlin, Germany  
**ZMKU:** Zoological Museum, Kiev, Ukraine  
**ZMUC:** Zoologisk Museum, Universitets Copenhagen, Copenhagen, Denmark  
**ZMUH:** Zoologische Institut und Zoologisches Museum, Universität von Hamburg, Hamburg, Germany  
**ZSMC:** Zoologische Sammlungen des Bayerischen Staates/Zoologische Staatssammlung, Munich, Germany

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My visit there was a revelation in too many ways to express. The staff attending my needs in the Entomology Library have my personal gratitude. They are: Ms. Julie Harvey, Collection Development Manager, Ms. Joanna Kapusta, Ms. Luci Hall and Mr. John Rose, who filled in from the General Library.

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### DEDICATION

I owe much of what I have become to my mother, Elizabeth L. Pelham, though she might choose to disavow at least some of it. I got my first, second and third butterfly books from her and she encouraged me without a clear understanding of what so fascinated me about butterflies. She has endured frass, strange smelling chemicals and the occasional escapee, to mention only a few things. Further, she has willingly tolerated the enthusiastic wild-eyed butterfly people and the strange language we speak. She has accepted all of this, even to this day, with no more than a raised eyebrow.



Superfamily **HESPERIOIDEA** Latreille, 1809

Gen. Crust. Ins. 4: 187, 207 (as “Hesperides”). Type-genus: *Hesperia* Fabricius, 1793, Entomol. Syst. 3(1): 258, no. 187.

Family **HESPERIIDAE** Latreille, 1809

The family-group arrangement presented herein follows A. Warren’s doctoral dissertation (A. Warren 2006), based on molecular and morphological characters. Two papers are in press or under preparation that detail this arrangement.

Subfamily **Eudaminae** Mabilie, 1877

Petites Nouv. Entomol. 2(179): 162. Type-genus: *Eudamus* Swainson, 1831, Zool. Illustr. (2)2(11): pl. 48, unnumbered text.

Genus **Phocides** Hübner, [1819]

Verz. bekannt. Schmett. (7): 103. Type-species: *Phocides cruentus* Hübner, [1819], Verz. bekannt. Schmett. (7): 103, no. 1082 (= *Hesperia polybius* Fabricius (1793), Entomol. Syst. 3(1): 337, no. 281; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 248, no. 857.

= *Erycides* Hübner, [1819]

Verz. bekannt. Schmett. (7): 110. Type-species: *Papilio pigmalion* Cramer, 1779, Uitl. Kapellen 3(21): 87, pl. 245, figs. A, B; (24): 176 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 67. First reviser choice of *Phocides* over *Erycides* was made by Godman and Salvin (1893), Biol. centr.-amer., Lepid. Rhop. 2(110): 292.

= *Dysenius* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 67. Type-species: *Erycides albicilla* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(11): 169, no. 16 (= *Erycides lilea* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(3): 339, no. 47; synonym; a subspecies of *Hesperia polybius* Fabricius, 1793, Entomol. Syst. 3(1): 337, no. 281), by original designation.

\*1. **Phocides pigmalion** (Cramer, 1779)

Uitl. Kapellen 3(21): 87, pl. 245, figs. A ♂ D, B ♂ V; (24): 176 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a] Pigmalion*.

**Type Locality:** “Surinamen” “Suriname”

**Types:** Type(s) probably lost (van der Meulen collection).

= *tenuistriga* Mabilie & Boulet, 1912

Ann. Sci. Nat., Zool. (9)16(2): 16, 21-22.

**Original Combination:** *P[hocides]. Tenuistriga* Stgr.

**Type Locality:** “Colombie...Perou...Brésil”; suggested to be “Colombia” by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 13, from the “type” in BMNH.

**Types:** Syntypes in BMNH and MNHP.

= *iocularis* Röber, 1925

Entomol. Mitt. 14(2): 159-160.

**Original Combination:** *Phocides iocularis*

**Type Locality:** “Kolumbien”

**Types:** Lectotype in MTD, designated by Mielke (1989), Revta. bras. Zool. 6(1): 134.

= *disparilis* Röber, 1925

Entomol. Mitt. 14(2): 160.

**Original Combination:** *Phocides disparilis*

**Type Locality:** “Kolumbien”

**Types:** Holotype in MTD.

a. **Phocides pigmalion okeechobee** (Worthington, 1881)

*Papilio* 1(8): 133.

**Original Combination:** *Erycides Okeechobee*

**Type Locality:** “Marco Island, Florida” [Collier County]

**Types:** Syntypes in USNM.

2. **Phocides belus** Godman & Salvin, 1893

Biol. centr.-amer., Lepid. Rhop. 2(88): 293, no. 2; 3(111): pl. 76, figs. 17 ♂ D, 18 ♂ V.

**Original Combination:** *Phocides belus*

**Type Locality:** “Mexico, Ventana...Tampico...Paso de San Juan”

**Types:** Holotype in BMNH.

Recorded from Texas by Hanson *et al.* (2003), News Lepid. Soc. 45(2): 41, 42-43, 8 figs., cover.

\*3. **Phocides polybius** (Fabricius, 1793)

Entomol. Syst. 3(1): 337, no. 281; cited Jones’ Icones 6: pl. 24, fig. 2, actually figured on pl. 71, D; also figured by Donovan (1800),

Epit. Ins. India: pl. 5 (a copy from Jones’ Icones).

**Original Combination:** *H[esperia]. U[rbicola]. Polybius*

**Type Locality:** “in Indiis. Dom. Drury”

**Types:** Type(s) probably lost; based on specimens figured by Jones.

= *‡palemon* (Cramer, 1777)

- Uitl. Kapellen 2(11): 54, pl. 131, fig. F ♀ D; (34): 251 (index).  
**Original Combination:** *Pap[ilio]*. *Pleb[ejus]*. *Urbico[a]*. *Palemon*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Syntype in RMNH.  
 Preoccupied by *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1: 471 (Code Article 58.1).
- = *cruentus* Hübner, [1819]  
 Verz. bekannt. Schmett. (7): 103, no. 1082; cited *Papilio palemon* Cramer, 1777, Uitl. Kapellen 2(11): pl. 131, fig. F.  
**Original Combination:** *P[hocides]*. *Cruentus*  
 Proposed as a replacement name for *Papilio palemon* Cramer, 1777, with the same data (Code Article 60.3).
- = *palaemonides* Röber, 1925  
 Entomol. Mitt. 14(2): 159.  
**Original Combination:** *Phocides palaemonides*  
**Type Locality:** Not stated.  
**Types:** Location of holotype not known.  
 Mielke (1989), Revta. bras. Zool. 6(1): 144, determined this synonymy.
- = ♂ "gunderi" R. Williams & E. Bell, 1931  
 Trans. Am. Entomol. Soc. 57(3): 251.  
**Original Combination:** *Phocides palemon* ab. *gunderi*  
**Type Locality:** "Rockstone, Essequibo River, British Guiana"  
**Types:** "Holotype" (#7573) in ANSP.
- a. **Phocides polybius lilea** (Reakirt, [1867])  
 Proc. Acad. Nat. Sci. Philad. 18(3): 339, no. 47.  
**Original Combination:** *Erycides lilea*  
**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]  
**Types:** Syntype in CMNH.
- = *albicilla* (Herrich-Schäffer, 1869)  
 Corresp.-Bl. zool.-min. Ver. Regensburg 23(11): 169, no. 16.  
**Original Combination:** [*Erycides*] *albicilla*  
**Type Locality:** Not stated; syntype labeled "Mexiko."  
**Types:** Syntype in ZMHB.
- = *socius* (Butler & H. Druce, 1872)  
 Cist. Entomol. 1(5): 112.  
**Original Combination:** *E[rycides]*. *Socius*  
**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.  
**Types:** Holotype in BMNH.
- = ♂ *cruentus* (Scudder, 1872)  
 4th Ann. Rep. Peabody Acad. Sci. (1871): 67, no. 2.  
**Original Combination:** *D[ysenius]*. *cruentus*  
**Type Locality:** "Guatemala"  
**Types:** Syntype (#15308) in MCZ.  
 Preoccupied by *Phocides cruentus* Hübner, [1819], Verz. bekannt. Schmett. (7): 103.
- = *sanguinea* (Scudder, 1872)  
 4th Ann. Rep. Peabody Acad. Sci. (1871): 68, no. 3.  
**Original Combination:** *E[rycides]*. *sanguinea*  
**Type Locality:** "Texas (Capt. Pope, Mexican Boundary Survey)"  
**Types:** Lectotype (#7174) in ANSP, designated by Skinner and R. Williams (1922), Trans. Am. Entomol. Soc. 48(2): 112, no. 3.
- = *imbreus* Plötz, 1879  
 Stettiner Entomol. Ztg. 40(7-9): 406, no. 4; cited unpublished pl. 1198.  
**Original Combination:** [*Erycides*] *Imbreus*  
**Type Locality:** "Central-Amer."  
**Types:** Holotype (#4942) in ZMHB.
- = *spurius* (Mabille, 1880)  
 Bull. Soc. Entomol. Fr. (5)10(2): xlv.  
**Original Combination:** *E[rycides]*. *spurius*  
**Type Locality:** Not stated; lectotype from "Bogota." [Colombia]  
**Types:** Lectotype in BMNH, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 38.
- = *decolor* (Mabille, 1880)  
 Annls. Soc. Entomol. Fr. (5)10(2): 62; (bull.): xlv.  
**Original Combination:** *E[rycides]*. *decolor*  
**Type Locality:** Not stated.  
**Types:** Holotype in BMNH.
- = *albiciliata* Röber, 1925  
 Entomol. Mitt. 14(2): 159.  
**Original Combination:** *Phocides albiciliata*  
**Type Locality:** "Guatemala"  
**Types:** Holotype in MTD, detailed by Mielke (1989), Revta. bras. Zool. 6(1): 134.



Genus **Proteides** Hübner, [1819]

Verz. bekannt. Schmett. (7): 105. Type-species: *Papilio mercurius* Fabricius, 1787, Mantissa Ins. 2: 86, no. 780, by designation of Butler (1870), Entomol. Mon. Mag. 7(76): 93.

= *Dicranaspis* Mabilie, 1878

Annls. Soc. Entomol. Belg. 21: 24. Type-species: *Papilio idas* Cramer, 1779, Utl. Kapellen 3(22): 118, pl. 260, figs. A, B; (24): 175 (index) (= *Papilio mercurius* Fabricius, 1787, Mant. Ins. 2: 86, no. 780; homonym), by monotypy.

4. **Proteides mercurius** (Fabricius, 1787)a. **Proteides mercurius mercurius** (Fabricius, 1787)

Mantissa Ins. 2: 86, no. 780.

**Original Combination:** *P[apilio]*. *P[lebejus]*. *U[rbicola]*. *Mercurius*

**Type Locality:** "Cajennae. Dom. v. Rohr" [French Guiana]

**Types:** Syntype in ZMUC.

= *idas* (Cramer, 1779)

Utl. Kapellen 3(22): 118, pl. 260, figs. A ♂ D, B ♂ V; (24): 175 (index).

**Original Combination:** *Pap[ilio]*. *Pleb[ejus]*. *Urbicol[a]*. *Idas*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

Preoccupied by *Papilio idas* Linnaeus, 1761, Fauna Svecica, ed. 2: 284, as established by I.C.Z.N. *Opinion* 269.

b. **Proteides mercurius sanantonio** (Lucas, 1857) (emended)

*In:* Sagra, Hist. Cuba 7(2): 626-627.

**Original Combination:** *Eudamus San-Antonio*

**Type Locality:** "dans l'île de Cuba" "Le nom de San-Antonio appelle celui du cap nord-est de l'île de Cuba"

**Types:** Location of type(s) not known.

Genus **Epargyreus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 105. Type-species: *Papilio tityrus* Fabricius, 1775, Syst. Entomol.: 532, no. 382 (= *Papilio clarus* Cramer, 1775, Utl. Kapellen 1(4): 66, pl. 41, figs. E, F; (8): 152 (index); homonym), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 70.

= *Eridamus* Burmeister, 1875

Revue Mag. Zool. (3)3: 51-59. Type-species: *Goniurus tmolis* Burmeister, 1875, Revue Mag. Zool. (3)3: 64, pl. 1, figs. 1 (larva), 8, 9 (portions of larva), by designation of Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 44.

5. **Epargyreus zestos** (Geyer, 1832)a. **Epargyreus zestos zestos** (Geyer, 1832)

*In:* Hübner, Zutr. Samml. exot. Schmett. 4: pl [106], figs. 615 ♀ D, 616 ♀ V (1826); (text): 9, no. 308 (1832, name given).

**Original Combination:** *Proteides Zestos*

**Type Locality:** "Surinam", probably in error.

**Types:** Type(s) probably lost.

Hübner [1819], Verz. bekannt. Schmett. (7): 103, listed *Proteides zestos* without a description or indication; a *nomen nudum*.

= *oberon* (Worthington, 1881)

*Papilio* 1(8): 132-133.

**Original Combination:** *Eudamus Oberon*

**Type Locality:** "Marco Island, Florida" [Collier County]

**Types:** Syntype in USNM.

= *arsaces* Mabilie, 1903

*In:* Wytman, Gen. Ins. (17a): 24.

**Original Combination:** *E[pargyreus]*. *arsaces*

**Type Locality:** "Ile Saint-Thomas" [United States Virgin Islands]

**Types:** Type(s) in BMNH.

6. **Epargyreus clarus** (Cramer, 1775)a. **Epargyreus clarus clarus** (Cramer, 1775)

Utl. Kapellen 1(4): 66, pl. 41, figs. E ♂ D, F ♂ V; (8): 152 (index).

**Original Combination:** *Pap[ilio]*. *Pleb[ejus]*. *Urbicola Clarus*

**Type Locality:** "Surinamen" "Suriname" in error; corrected to "Dayton (Rockingham Co.), Virginia" by Dixon (1955), Entomol. News 66(1): 7.

**Types:** Type(s) probably lost. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 3, stated that a neotype was in CMNH, designated by Dixon (1955), Entomol. News 66(1): 7. I was unable to determine that there was any neotype designation by Dixon, only a series was mentioned.

= *tityrus* (Fabricius, 1775)

Syst. Entomol.: 532, no. 382.

**Original Combination:** *P[apilio]*. *P[lebejus]*. *U[rbicola]* *Tityrus*

**Type Locality:** "America"; corrected to "Dayton (Rockingham Co.), Virginia" by Dixon (1955), Entomol. News 66(1): 7.

- Types:** Syntypes in ZMUC.  
Preoccupied by *Papilio tityrus* Poda, 1761, Ins. Mus. graec.: 77.
- = *argentosus* Hayward, 1933  
Revta. Soc. Entomol. Argent. 5(23): 175, pl. 9, fig. 7 [actually pl. 10, fig. 4] ♂ genitalia, pl. 11, fig. 4 [actually pl. 14, fig. 7] ♂ V.  
**Original Combination:** *Epargyreus argentosus*  
**Type Locality:** "Tierra del Fuego" in error.  
**Types:** Holotype in MACN.
- = *argenteola* (Matsumura, 1940)  
Insecta Matsumurana 15: 1-2, fig. 1 ♂ D, 2 ♂ V (holotype).  
**Original Combination:** *Bibacis* [sic!] *argenteola*  
**Type Locality:** "Formosa...Nôkô in the Prov. Taichu near Hori" in error; corrected to "Nearctic" by Evans (1949), Cat. Hesp. Europ. Asia Austr. Brit. Mus.: 477.  
**Types:** Holotype probably in EIHU.  
Shirôzu (1947), Zephyrus 9(4): 270-271, determined that *argenteola* is a synonym of *tityrus* (= *clarus*).  
= ♂ "obliteratus" Scudder, 1889  
Butts. E. U. S. & Can. 2(10): 1402.  
**Original Combination:** *Epargyreus tityrus obliteratus*  
**Type Locality:** "near Boston" [Massachusetts]  
**Types:** "Holotype" may be in MCZ.  
The text clearly indicates that this taxon was described as an individual variant.
- = ♂ "smythi" R. Williams, 1927  
Trans. Am. Entomol. Soc. 53(3): 262; cited Smyth (1908), Entomol. News 19(5): pl. 10, upper figure ("holotype").  
**Original Combination:** *Epargyreus tityrus* aberration *smythi*  
**Type Locality:** "Charleston, South Carolina" [Charleston County]  
**Types:** "Holotype" in USNM.
- b. *Epargyreus clarus huachuca* Dixon, 1955  
Entomol. News 66(1): 7-9.  
**Original Combination:** *Epargyreus clarus huachuca*  
**Type Locality:** "Huachuca Mts., Cochise Co., Arizona"  
**Types:** Syntypes in CMNH.
- c. *Epargyreus clarus profugus* Austin, 1998  
Syst. W. N. Am. Butts. (43): 523-524, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Epargyreus clarus profugus*  
**Type Locality:** "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1676 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"  
**Types:** Holotype in MGCL.
- d. *Epargyreus clarus californicus* MacNeill, 1975  
In: Howe, Butts. N. Am.: 572.  
**Original Combination:** *Epargyreus clarus californicus*  
**Type Locality:** Not stated; lectotype from "China Flat, El Dorado Co., California."  
**Types:** Lectotype in CAS, designated by Ferris (1989), Mem. Lepid. Soc. 3: 5.  
"Eudamus tityrus californica Hy. Edwards" was proposed in synonymy by Skinner (1981), in: Smith *et al.*, List Lepid. Bor. Am.: 17, no. 627a; a *nomen nudum*.
- \*7. *Epargyreus exadeus* (Cramer, 1779)  
Uitl. Kapellen 3(22): 118, pl. 260, fig. C ♂ V; (24): 174 (index).  
**Original Combination:** *Pap[ilio]. Ple[bejus]. Urbicol[a] Exadeus*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost (van der Meulen collection).
- a. *Epargyreus exadeus cruza* Evans, 1952  
Cat. Am. Hesp. Brit. Mus. (2): 50; cited figures in Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10, and W. Holland (1931), Butt. Book (rev. ed.): pl. 49, figs. 8 ♂ D, 9 ♀ V.  
**Original Combination:** [*Epargyreus exadeus*] *cruza*  
**Type Locality:** "Mexico, Cordova, Vera Cruz" [Veracruz]  
**Types:** Holotype in BMNH.

#### Genus *Polygonus* Hübner, [1825]

- Samml. exot. Schmett., 2: pl. [144]. Type-species: *Polygonus lividus* Hübner, [1825], Samml. exot. Schmett. 2: pl. [144], figs. 1-4 (= *Papilio leo* Gmelin, [1790], Syst. Nat. (ed. 13) 1(5): 2363, no. 836; synonym), by monotypy.
- = ♂ *Acolastus* Scudder, 1872  
4th Ann. Rept. Peabody Acad. Sci., (1871): 71. Type-species: *Hesperia savignyi* [sic!] Latreille, [1824], Enc. méth. 9(Ins.) (2): (716), 741-742, no. 35, by original designation. Preoccupied by *Acolastus* Gerstäcker, 1855, Mber. dt. Akad. Wiss. Berl. [1855]: 636.
- = ♂ *Nennius* W. F. Kirby, [1902]  
In: Wytzman, Facsimile ed. Hübner, Samml. exot. Schmett. 3 (addit. notes): 105. Type-species: *Polygonus lividus* Hübner, [1825], Samml. exot. Schmett. 2: pl. [144], figs. 1-4 (= *Papilio leo* Gmelin, 1790, Syst. Nat. (ed. 13) 1(5): 2363, no. 836; synonym), as

replacement name. Proposed to replace *Polygonus*, erroneously thought to be preoccupied (Code Articles 60.3, 67.8); a junior objective synonym of *Polygonus*.

\*8. **Polygonus leo** (Gmelin, [1790])

Syst. Nat. (ed. 13) 1(5): 2363, no. 836; cited *Papilio amyntas* Fabricius, 1775, Syst. Entomol.: 533, no. 384.

**Original Combination:** [*Papilio Plebejus Urbanus*] *Leo*

Proposed as a replacement name for *Papilio amyntas* Fabricius, 1775, with the same data (Code Article 60.3).

= *amyntas* (Fabricius, 1775)

Syst. Entomol.: 533, no. 384.

**Original Combination:** *P[apilio]. P[lebejus]. U[rbicola] Amyntas*

**Type Locality:** "America. Mus. Tottianum" The type locality of *Polygonus lividus* was suggested to be "Hispaniola" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 541, and the neotype of *lividus* is the lectotype of *amyntas*.

**Types:** Lectotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39.

Preoccupied by *Papilio amyntas* Poda, 1761, Ins. Mus. graec.: 79.

= *lividus* Hübner, [1825]

Samml. exot. Schmett. 2: pl. [144], 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polygonus Lividus*

**Type Locality:** Not stated; suggested to be "Hispaniola" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 541.

**Types:** Type(s) probably lost. Neotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39. The neotype is the same specimen as the lectotype of *amyntas*.

Hübner [1819], Verz. bekannt. Schmett. (7): 103, listed *Astraptus lividus* without a description or indication; a *nomen nudum*.

= *ishmael* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 54.

**Original Combination:** [*Polygonus leo*] *ishmael*

**Type Locality:** "Haiti"

**Types:** Holotype in BMNH.

a. **Polygonus leo arizonensis** (Skinner, 1911)

Trans. Am. Entomol. Soc. 37(3): 209, pl. 10 D&V; ♂ genitalia figured by Skinner and R. Williams (1923), Trans. Am. Entomol. Soc. 48(4): fig. 5.

**Original Combination:** *Erycides amyntas arizonensis* n. var.

**Type Locality:** "Florence, Arizona" [Pima County]

**Types:** Syntype (#7073) in ANSP.

b. **Polygonus leo histrio** Röber, 1925

Entomol. Mitt. 14(2): 161.

**Original Combination:** *Polygonus (Acolastus) histrio*

**Type Locality:** "Panama", probably in error.

**Types:** Holotype in MTD, detailed by Mielke (1989), Revta. bras. Zool. 6(1): 134.

Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 39, determined that the holotype of this taxon represents the phenotype found in Florida and Cuba.

9. **Polygonus savigny** (Latreille, [1824])

a. **Polygonus savigny savigny** (Latreille, [1824])

Enc. méth., 9(Ins.) (2): (716), 741-742, no. 35.

**Original Combination:** *Hesperia Savigny*

**Type Locality:** "aux Antilles"

**Types:** Lectotype in MNHP, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 40.

The lectotype is conspecific with *Polygonus manueli*, as determined by Mielke and Casagrande (2002), *ibid.*, so the name *savigny* must be given priority; frequently misspelled *savignyi*, but this is an incorrect subsequent spelling.

= *manueli* E. Bell & W. Comstock, 1948

Am. Mus. Novit. (1379): 4-6, fig. 1 ♂ genitalia.

**Original Combination:** *Polygonus manueli*

**Type Locality:** "New Bremen, Brasil" [Santa Catharina]

**Types:** Holotype in AMNH.

One paratype, possibly mislabeled, from "Royal Palm Hammock, [Miami-Dade County] Florida" was figured by Klotz (1951), Field Guide Butts. N. Am.: pl. 26, fig. 4 ♂ D.

‡"mimeticus" J. Zikán & W. Zikán, 1968

Pesq. agropec. bras. 3: 62.

Proposed without a description; a *nomen nudum*.

Genus **Choioides** Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 25-26. Type-species: *Eudamus albofasciatus* Hewitson, 1867, Descr. One Hundred new Spec. Hesp. (1): 3-4, no. 2, by original designation.

10. **Choioides albofasciatus** (Hewitson, 1867)

Descr. One Hundred new Spec. Hesp. (1): 3-4, no. 2; figured by Hewitson (1875), Ill. exot. Butts. 5(96): pl. Eudamus II [50], fig. 15 V.

**Original Combination:** *Eudamus albofasciatus*



**Type Locality:** "Guatemala (Polochic Valley)"

**Types:** Holotype in BMNH.

Austin and A. Warren (2002), *Dugesiana* 9(2): 17-18, recently corroborated the species-level status of this taxon.

11. **Chiooides zilpa** (Butler, 1872)

Lepid. Exot. (8): 109, pl. 40, fig. 2 ♂ V.

**Original Combination:** *G[oniurus]*. *Zilpa*

**Type Locality:** "Cartago, Costa Rica"

**Types:** Holotype in BMNH.

= *namba* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 58; cited W. Holland (1931), Butt. Book (rev. ed.): pl. 49, fig. 18 ♂ V.

**Original Combination:** [*Chiooides zilpa*] *namba*

**Type Locality:** "Magdalena, N. Sonora, Mexico"

**Types:** Holotype in BMNH.

Austin and A. Warren (2002), *Dugesiana* 9(2): 18, determined this synonymy.

Genus **Typhedanus** Butler, 1870

Trans. Entomol. Soc. Lond. (4)1870[18] (4): 497. Type-species: *Typhedanus zephus* Butler, 1870, Trans. Entomol. Soc. Lond. (4)1870[18] (4): 497, by monotypy (not *Cobalus umber* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 203, *sensu* Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 452).

12. **Typhedanus undulatus** (Hewitson, 1867)

Descr. One Hundred new Spec. Hesp. (1): 4, no. 4; figured by Hewitson (1873), Ill. exot. Butts. 5(96): pl. Eudamus II [50], fig. 16 V.

**Original Combination:** *Eudamus undulatus*

**Type Locality:** Not stated.

**Types:** Holotype in BMNH.

= *sumichrasti* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 69, no. 5.

**Original Combination:** *T[hyme]*. *Sumichrasti*

**Type Locality:** "Tehuantepec" [Oaxaca, Mexico]

**Types:** Syntype (#15309) in MCZ.

= *elongatus* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou, 55(3): 4, no. 8; cited unpublished pl. 8.

**Original Combination:** *Goniurus Elongatus*

**Type Locality:** "Brasilien"

**Types:** Type(s) may be in ZSMC, ZMHB, or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *nicasius* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 4, no. 9; cited unpublished pl. 1.

**Original Combination:** *Goniurus Nicasius*

**Type Locality:** "Brasil"

**Types:** Type(s) may be in ZSMC, ZMHB, or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.

Genus **Polythrix** E. Watson, 1893

Proc. Zool. Soc. Lond. 1893(1): 16, 19. Type-species: *Eudamus metallescens* Mabille, 1888, Naturaliste (2)2(28): 108-109, fig. 2, by original designation.

13. **Polythrix mexicanus** H. Freeman, 1969

J. Lepid. Soc. 23(suppl. 2): 10, pl. 5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polythrix mexicanus*

**Type Locality:** "Seven miles south of Valles (grounds of Hotel Covadonga), San Luis Potosi, Mexico"

**Types:** Holotype in AMNH, as noted by H. Freeman (1989), J. Lepid. Soc. 43(3): 244.

Species-genus gender conformation is *mexicana*.

For details on the species-level status of this taxon, see H. Freeman (1969), J. Lepid. Soc. 23(suppl. 2): 10, (1979), J. Lepid. Soc. 33(3): 124-128, and Austin and A. Warren (2002), *Dugesiana* 9(2): 19.

14. **Polythrix octomaculata** (Sepp, [1844])

Surinaam. Vlinders 2(13): 123 [22 Aug 1844]; (15): pl. 58, larva, pupa, ♂ D, ♂ V [27 Aug 1844].

**Original Combination:** *Papilio Octomaculata*

**Type Locality:** "Surinam" implied from the title of the work.

**Types:** Type(s) are lost.

H. Freeman (1967), J. Lepid. Soc. 21(4): 278, and (1979), J. Lepid. Soc. 33(2): 125, detailed the occurrence of this taxon in Texas.

= *decussata* (Ménétriés, 1855)

- Enum. corp. anim. (1): 97, 123, no. 1013, pl. 5, fig. 2 ♂ D&V.  
**Original Combination:** *Goniuris* [sic!] *Decussata*  
**Type Locality:** “d’Haiti”  
**Types:** Lectotype in ZIN, designated by Mielke and Casagrande (2002), *Revta. bras. Zool.* 19(supl. 1): 40.  
 = *decurtata* (Herrich-Schäffer, 1869)  
*Corresp.-Bl. zool.-min. Ver. Regensburg* 23(11): 170, no. 13.  
**Original Combination:** [*Eudamus*] *decurtata*  
**Type Locality:** Not stated; “Brazil” on label of syntype.  
**Types:** Syntype in ZMHB.  
 = *calenus* (Mabille, 1888)  
*Naturaliste* (2) 10(27): 99, fig. 3 ♂ D&V.  
**Original Combination:** *Eudamus calenus*  
**Type Locality:** “Guatemala”  
**Types:** Type(s) may be in ZMHB or MNHP (Staudinger collection).  
 = *alciphron* (Godman & Salvin, 1893)  
*Biol. centr.-amer., Lepid. Rhop.* 2(109): 285, no. 24; 3(110): pl. 75, figs. 24 ♂ D, 25 ♂ V.  
**Original Combination:** *Eudamus alciphron*  
**Type Locality:** “Mexico, Rincon in Guerrero...Coatepec in Vera Cruz”; holotype from “Rincon.”  
**Types:** Syntype in BMNH.  
 Steinhauser (1975), *Bull. Allyn Mus.* (29): 5, considered this a ♀ form and synonym of *octomaculata*; H. Freeman (1979), *J. Lepid. Soc.* 33(3): 125, and Austin and A. Warren (2002), *Dugesiana* 9(2): 19, concurred.  
 = *elegans* (Hayward, 1933)  
*Revta. Soc. Entomol. Argent.* 5(23): 165, pl. 7 [actually pl. 10] fig. 6 ♂ genitalia, pl. 11 [actually pl. 12], fig. 6 ♂ D&V.  
**Original Combination:** *Goniurus elegans*  
**Type Locality:** “Misiones” [Prov. Misiones, Argentina]  
**Types:** Holotype in MLPA (Breyer collection).

Genus *Aguna* R. Williams, 1927

*Trans. Am. Entomol. Soc.* 53(3): 286. Type-species: *Eudamus camagura* R. Williams, 1926, *Trans. Am. Entomol. Soc.* 52(2): 81-82, by original designation.

- = ‡*Tmetocerus* Poujade, 1896  
*Bull. Soc. Entomol. Fr.* 1895(4) (26): cxliv. Type-species: *Eudamus asander* Hewitson, 1867, *Descr. One Hundred new Spec. Hesp.* (1): 9, no. 13, by monotypy. Preoccupied by *Tmetocerus* Hartert, 1891, *Kat. Vögelsamml. Mus. Senckenberg*: 141.  
*asander* group, Austin & Mielke, 1998  
*Revta. bras. Zool.* 14(4): 896.

15. ***Aguna asander*** (Hewitson, 1867)  
 a. ***Aguna asander asander*** (Hewitson, 1867)  
*Descr. One Hundred new Spec. Hesp.* (1): 9, no. 13, figured by Hewitson (1875), *Ill. exot. Butts.* 5(96): pl. *Eudamus* III [51], fig. 24 V.  
**Original Combination:** *Eudamas asander*  
**Type Locality:** “Amazon (Ega)” [Tefé, Brazil]  
**Types:** Lectotype in BMNH, designated by Austin and Mielke (1998), *Revta. bras. Zool.* 14(4): 896.  
 = *panthius* (Herrich-Schäffer, 1869)  
*Corresp.-Bl. zool.-min. Ver. Regensburg* 23(12): 186, no. 6.  
**Original Combination:** [*Eudamus*] *panthius*  
**Type Locality:** Not stated.  
**Types:** Lectotype in ZMHB, designated by Austin and Mielke (1998), *Revta. bras. Zool.* 14(4): 896.  
 Godman (1907), *Ann. Mag. Nat. Hist.* (7) 20(116): 134, determined this synonymy based on an examination of the unpublished drawing (pl. 109) made by Plötz. Bailowitz and Brock (1991), *Butts. S.E. Ariz.*: 22, also stated that this is a “form” of *asander*.  
 = *scheba* (Plötz, 1881)  
*Stettiner Entomol. Ztg.* 43(1-3): 94, no. 56; cited unpublished pl. 117.  
**Original Combination:** [*Eudamus*] *Scheba*  
**Type Locality:** “Süd-Amerika”  
**Types:** Lectotype in ZMHB, designated by Austin and Mielke (1998), *Revta. bras. Zool.* 14(4): 896.  
 Godman (1907), *Ann. Mag. Nat. Hist.* (7) 20(116): 134, determined this synonymy based on his examination of the unpublished drawing made by Plötz.  
 = *euthymides* (Mabille & Boulet, 1912)  
*Annls. Sci. Nat., Zool.* (9) 16(2): 65, 69.  
**Original Combination:** [*Epargyreus Asander*] Var. *Euthymides* Plötz  
**Type Locality:** Not stated; referred to Plötz’ unpublished plate 107.  
**Types:** Type(s) probably based on Plötz’ unpublished figures only.  
 Mabille (1903), *in: Wytzman, Gen. Ins.* 17a: 24, introduced this name (as *Epargyreus euthymides*) without a description or indication; a *nomen nudum*.

metophis group Austin & Mielke, 1998  
Revta. bras. Zool. 14(4): 906.

16. **Aguna metophis** (Latreille, [1824])  
Ency. méth. 9(Ins.) (2): (713), 729, no. 2; figured by Boisduval (1836), Spec. gén. Lépid. 1: pl. 13, fig. 5 ♂ D.  
**Original Combination:** *Hesperia Metophis*  
**Type Locality:** "au Bresil"  
**Types:** Lectotype in BMNH, designated by Austin and Mielke (1998), Revta. bras. Zool. 14(4): 906.

claxon group Austin & Mielke, 1998  
Revta. bras. Zool. 14(4): 910.

17. **Aguna claxon** Evans, 1952  
Cat. Am. Hesp. Brit. Mus. (2): 60.  
**Original Combination:** [*Aguna*] *claxon*  
**Type Locality:** "Mexico, Atoyac, Vera Cruz" [Veracruz]  
**Types:** Holotype in BMNH.

#### Genus *Zestusa* Lindsey, 1925

Ann. Entomol. Soc. Am. 18(1): 106. Type-species: *Plestia staudingeri* Mabille, 1888, Naturaliste (2)2(31): 146, fig. 1, as replacement name. Proposed to replace *Plestia* Mabille, 1888, preoccupied (Code Articles 60.3, 67.8).

= ‡*Plestia* Mabille, 1888

Naturaliste (2)2(31): 146. Type-species: *Plestia staudingeri* Mabille, 1888, Naturaliste (2)2(31): 146, fig. 1, by monotypy. Preoccupied by *Plestia* Stål [1871], Ofvers. K. VetenskAkad. Förh. 27(7): 768 (nota).

18. **Zestusa dorus** (W. H. Edwards, 1882)  
Papilio 2(8): 140-141.  
**Original Combination:** *Eudamus Dorus*  
**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; defined as "Mount Graham, Graham County, Arizona, between 5,000 and 8,000 feet above sea level" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 600.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 45, fig. 11 ♂ D&V, as "type"; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 602, fig. 1 ♂ D&V.

#### Genus *Codatractus* Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 26. Type-species: *Heteropia imitatrix* Mabille, 1889, Naturaliste (2)3(49): 68, fig. 3 (= *Telegonus imalena* Butler, 1872, Lepid. Exot.: 109, pl. 40, fig. 1; synonym), as replacement name. Proposed to replace *Heteropia* Mabille, 1889, preoccupied (Code Articles 60.3, 67.8).

= ‡*Heteropia* Mabille, 1889

Naturaliste (2)3(49): 68. Type-species: *Heteropia imitatrix* Mabille, 1889, Naturaliste (2)3(49): 68 (= *Telegonus imalena* Butler, 1872, Lepid. Exot.: 109, pl. 40, fig. 1; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 22. Preoccupied by *Heteropia* Carter, 1886, Ann. Mag. Nat. Hist. (5)18: 47.

19. **Codatractus alcaeus** (Hewitson, 1867)  
a. **Codatractus alcaeus alcaeus** (Hewitson, 1867)  
Descr. One Hundred new Spec. Hesp. (1): 3, no. 1; figured by Hewitson (1875), Ill. exot. Butts. 5(96): pl. Eudamus II [50], fig. 9 V.  
**Original Combination:** *Eudamus alcaeus*  
**Type Locality:** "Nicaragua"  
**Types:** Holotype in BMNH.  
= *montezuma* (Scudder, 1872)  
4th Ann. Rep. Peabody Acad. Sci. (1871): 70, no. 10.  
**Original Combination:** *T[hymele]*. *Montezuma*  
**Type Locality:** "Tehuantepec" [Oaxaca, Mexico]  
**Types:** Syntype (#15317) in MCZ.
20. **Codatractus arizonensis** (Skinner, 1905)  
Entomol. News 16(7): 232; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.  
**Original Combination:** [*Heteropia melon*] [var.] *arizonensis*  
**Type Locality:** "Baboquivaria [sic] Mts., Pima County, Arizona"  
**Types:** Syntype (#7074) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 49, fig. 15 ♂ D.
21. **Codatractus valeriana** (Plötz, 1881)  
Stettiner Entomol. Ztg. 43(1-3): 99, no. 76; cited unpublished pl. 130.  
**Original Combination:** [*Eudamus*] *Valeriana*  
**Type Locality:** "Mexico"  
**Types:** Lectotype in ZMHB, designated by Mielke and A. Warren (2004), Revta. bras. Zool. 21(2): 308, figs. 1 ♂ D, 2 ♂ V, where



the status of this taxon was resolved.

= *mysie* (Dyar, 1904)

J. N. Y. Entomol. Soc. 12(1): 40.

**Original Combination:** *Thorybes mysie*

**Type Locality:** "Patagonia Mountains, Arizona" [Santa Cruz County]

**Types:** Lectotype (#7737) in USNM, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, figs. 8 ♂ D, 8a ♂ V, as "type"; figured by Burns (1996), J. Lepid. Soc. 50(3): 210, figs. 52, 59, 66 ♂ genitalia, 79 ♂ D, 80 ♂ V.

#### Genus *Urbanus* Hübner, [1807]

Samml. exot. Schmett. 1: pls. [150], [151], [155], [159]. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163 (as figured by Hübner [1807], Samml. exot. Schmett. 1: pl. [155]), by designation of Hemming (1933), Entomol. 66(9)[844]: 200. Steinhauser (1981), Bull. Allyn Mus. (62): 1-43, revised the *proteus* group, and (1987), Bull. Allyn Mus. (111): 1-16, detailed species-group names in this genus.

= ‡*Thymele* [Illiger], 1807

Allg. Lit.-Zeit. 2(303): 1180. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, designated by Bridges (1985), Notes on Family- and Genus-group names (IV): 123. Suppressed by I.C.Z.N. *Opinion* 232, and placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 48; it is also a junior objective synonym of *Urbanus* Hübner, [1807].

= ‡*Goniurus* Hübner, [1819]

Verz. bekannt. Schmett. (7): 104. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, by designation of Westwood (1852), in: Gen. diurn. Lepid. 2(54): 510. A junior objective synonym of *Urbanus* Hübner, [1807].

= ‡*Eudamus* Swainson, 1831

Zool. Illustr. (2)2(11): pl. 48, unnumbered text. Type-species: *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, by original designation. A junior objective synonym of *Urbanus* Hübner, [1807].

‡"Lyroptera" Plötz, 1881

Stettiner Entomol. Ztg. 42(10-12): 500. This name was introduced by Plötz (citing Hopffer) in the synonymy of *Eudamus* Swainson, 1831. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 271, stated that the type-species is *Papilio proteus* Linnaeus, 1758, by monotypy; L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 7, duplicated this citation. This is incorrect because "Lyroptera" Plötz is a *nomen nudum* and not available.

#### 22. *Urbanus proteus* (Linnaeus, 1758)

##### a. *Urbanus proteus proteus* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 484, no. 163; cited Merian (1705), Ins. Surinam: t. 63. f. 2; figured by Clerck [1764], Icon. Ins. 2: pl. 42 ♂ D&V.

**Original Combination:** *P[apilio]. P[lebejus urbicola]. Proteus*

**Type Locality:** "Americas"; "neotype" from "Cherry point, Craven Co., N[orth] C[arolina]", as designated by Steinhauser (1981), Bull. Allyn Mus. (62): 13, but see below.

**Types:** Lectotype in UZIU, designated by Aurivillius (1882), K. svenska. VetenskAkad. Handl. (4) 19(5): 119-120. A subsequent "lectotype", in MWNH, was designated by Mielke (1989), Rev. bras. Zool. 6(3):450-451, figs. 3 ♂ D, 4 ♂ V, and a "neotype", in MGCL, was designated by Steinhauser (1981), Bull. Allyn Mus. no. 62: 13 figs. 4 ♂ D, 5 ♂ V.

The lectotype designated by Aurivillius may not be this species. If not, it may be necessary to ask the I.C.Z.N. to establish a neotype that conforms with the consistent use of this name; see Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 373-374.

= *proteoides* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 11; cited unpublished pl. 33.

**Original Combination:** *Goniurus Proteoides*

**Type Locality:** "Nd. America"

**Types:** Holotype in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through examination of the unpublished drawing made by Plötz.

‡"fortis" Skinner & Ramsden, 1924

Proc. Acad. Nat. Sci. Philad. 75: 309.

**Original Combination:** *Urbanus fortis*

This name was listed in the synonymy of *proteus* without a description or indication; a *nomen nudum*.

#### 23. *Urbanus belli* (Hayward, 1935)

An. Soc. Cient. Argent. 119(6): 256; figured by Hayward (1964), Gen. Spec. Anim. Argent. 1: pl. 15, fig. 12 ♂ V.

**Original Combination:** *Goniurus belli*

**Type Locality:** "Salta" [Argentina]

**Types:** Holotype in MLPA (Breyer collection).

Recorded from Texas by A. Warren (1997), News Lepid. Soc. 39(3): 41, figs. F-J.

= *alva* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 87.

**Original Combination:** [*Urbanus viterboana*] *alva*

**Type Locality:** "Mexico, Atoyac, Veracruz"

**Types:** Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 14 ♂ D&V.

#### 24. *Urbanus pronus* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 89.

**Original Combination:** [*Urbanus*] *pronus*

**Type Locality:** "Ambato, Ecuador"

**Types:** Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 17 ♂ V.

= *plinius* E. Bell, 1956

Am. Mus. Novit. (1778): 1-5; figs. 3 ♂ D, 4 ♂ V, 17 ♂ genitalia (holotype?).

**Original Combination:** *Urbanus plinius*

**Type Locality:** "Santa Cruz, Bolivia"

**Types:** Holotype in AMNH.

25. **Urbanus esmeraldus** (Butler, 1877)

Trans. Entomol. Soc. Lond. (4)1877[25] (2): 146-147, no. 233.

**Original Combination:** *Goniurus esmeraldus*

**Type Locality:** "Villa bella"; interpreted to be "Villa Nova, Amazons" [Brazil] by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 89.

**Types:** Holotype in BMNH; figured by Steinhauser (1981), Bull. Allyn Mus. (62): fig. 19 ♂ V.

26. **Urbanus dorantes** (Stoll, 1790)

a. **Urbanus dorantes dorantes** (Stoll, 1790)

Aanhangs. Werk Uitl. Kapellen Pieter Cramer (2): 149; (3): pl. 39, fig. 9 ♂ V, 183 (index).

**Original Combination:** *Papilio*. *Pleb[ejus] Urbic[ola]. Dorantes*

**Type Locality:** "in Suriname"

**Types:** Type(s) probably lost (Breukelerwaerth collection).

= *torones* (Hübner, 1821)

Index exot. Lepid.: [6].

**Original Combination:** *Goniurus Torones*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

Proposed for the figures in Hübner [1807], Samml. exot. Schmett. 1: pl. [155], figs 1 ♂ D, 3 ♂ V (as *Urbanus Fortis Proteus*).

= *athletes* (C. Felder & R. Felder, 1862)

Wien entomol. Monatschr. 6(6): 183, no. 169.

**Original Combination:** *Eudamus Athletes*

**Type Locality:** "Brasilia et Nova Granada"; suggested to be "Brazil" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 92.

**Types:** Holotype in BMNH.

= *amisus* (Hewitson, 1867)

Descr. One Hundred new Spec. Hesp. (1): 5, no. 5; figured by Hewitson (1875), Ill. exot. Butts. 5(96): pl. Eudamus II [50], fig. 10 V.

**Original Combination:** *Eudamus Amisus*

**Type Locality:** Not stated; suggested to be "Nicaragua" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 92.

**Types:** Holotype in BMNH.

= *protillus* (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(11): 171, no. 19.

**Original Combination:** [*Eudamus*] *protillus*

**Type Locality:** Not stated; suggested as "Tropical America" by R. Williams (1926), Trans. Am. Entomol. Soc. 52(2): 62.

**Types:** Holotype in ZMHB.

= *corydon* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870[18] (4): 492-493, no. 4; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 2 ♂ V (holotype?).

**Original Combination:** *Goniurus Corydon*

**Type Locality:** "Cuba"; corrected to "Central Valleys of Guatemala" by Butler (1871), Lepid. Exot. (3): 65.

**Types:** Holotype in BMNH.

= *retractus* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 9, no. 24; cited unpublished pl. 24.

**Original Combination:** *Goniurus Retractus*

**Type Locality:** "Laguayra" [Venezuela]

**Types:** Holotype may be in ZIN or ZSMC.

= *kefersteinii* (Plötz, 1881)

Bull. Soc. Imp. Nat. Moscou 55(3): 11, no. 32; cited unpublished pl. 32.

**Original Combination:** *Goniurus Kefersteinii*

**Type Locality:** "Caracas" [Venezuela]

**Types:** Holotype may be in ZIN.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through examination of the unpublished drawing made by Plötz.

= *rauterbergi* (Skinner, 1895)

Entomol. News 6(4): 113.

**Original Combination:** *Eudamus protillus* var. *rauterbergi* n. var. ♂

**Type Locality:** "Comal County, Texas"; holotype labeled "New Braunfels, Comal Co., Tex."

**Types:** "Holotype" (#7062) in ANSP; figured by R. Williams (1926), Trans. Am. Entomol. Soc. 52(2): pl. 2, fig. 1; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 49, fig. 12 ♂ V.

The text clearly indicates that this taxon was described as an individual variant.

27. **Urbanus teleus** (Hübner, 1821)  
 Index exot. Lepid.: [3].  
**Original Combination:** *Goniurus Teleus*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost.  
 Proposed for the figures in Hübner [1808], Samml. exot. Schmett. 1: pl. [154], figs. 2 ♀ D, 4 ♀ V (as *Urbanus Fortis Dorantes*).  
 = *eurycles* (Latreille, [1824])  
 Ency. méth. 9(Ins.) (2): (714), 730, no. 5; cited *Papilio proteus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 163, *Papilio dorantes* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): pl. 39, fig. 9, and *P. simplicius* Stoll, 1790, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): pl. 39, figs. 6, 6e.  
**Original Combination:** *Hesperia Eurycles*  
**Type Locality:** “du Bresil”  
**Types:** Holotype in MNHP.  
 = *zalanthus* (Plötz, 1881)  
 Bull. Soc. Imp. Nat. Moscou 55(3): 3, no. 6; cited unpublished pl. 5.  
**Original Combination:** *Goniurus Zalanthus*  
**Type Locality:** “Allagra” [Porto Alegre, Rio Grande do Sul, Brazil]  
**Types:** Holotype (#5070) in ZMHB.  
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.  
 = *latipennis* (Mabille & Vuillot, 1891)  
 Novit. Lepid. (5): 36, pl. 5, fig. 1 D&V.  
**Original Combination:** *Goniurus latipennis*  
**Type Locality:** “Cayenne” [French Guiana]  
**Types:** Holotype may be in MNHP.
28. **Urbanus tanna** Evans, 1952  
 Cat. Am. Hesp. Brit. Mus. (2): 94.  
**Original Combination:** [*Urbanus*] *tanna*  
**Type Locality:** “Santa Rita, Colombia, Cauca River”  
**Types:** Holotype in BMNH.
29. **Urbanus simplicius** (Stoll, 1790)  
 Aanhangs. Werk Uitl. Kapellen Pieter Cramer (3): 171, pl. 39, figs. 6 ♂ D, 6e ♂ V; [184] (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbic[ola]. Simplicius*  
**Type Locality:** “Surinamen” “Suriname”  
**Types:** Type(s) probably lost.  
 = *gracillcauda* (Plötz, 1881)  
 Bull. Soc. Imp. Nat. Moscou 55(3): 2, no. 1.  
**Original Combination:** *Goniurus Gracillcauda*  
**Type Locality:** “Central America”  
**Types:** Holotype may be in ZIN or ZSMC.  
 = *pilatus* (Plötz, 1881)  
 Bull. Soc. Imp. Nat. Moscou 55(3): 2, no. 3; cited unpublished pl. 2.  
**Original Combination:** *Goniurus Pilatus*  
**Type Locality:** “Bahia, Surinam”  
**Types:** Syntypes (#5068, 5069) in ZMHB.  
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 133, determined this synonymy through an examination of the unpublished drawing made by Plötz.  
 = *thiemei* (Ehrmann, 1907)  
 Can. Entomol. 39(9): 321-322.  
**Original Combination:** *Thymele Thiemei*  
**Type Locality:** “San Pedro Sula, Honduras, Central America”  
**Types:** Holotype in CMNH.  
 = *borja* (Ehrmann, 1907)  
 Can. Entomol. 39(9): 322.  
**Original Combination:** *Thymele Borja*  
**Type Locality:** “Barja [sic], Bolivia, South America”  
**Types:** Holotype in CMNH.
30. **Urbanus procne** (Plötz, 1881)  
 Bull. Soc. Imp. Nat. Moscou 55(3): 3, no. 4; cited unpublished pl. 3.  
**Original Combination:** *Goniurus Procne*  
**Type Locality:** “Brasilien”  
**Types:** Holotype may be in ZIN or ZSMC.
31. **Urbanus doryssus** (Swainson, 1831)  
 a. **Urbanus doryssus doryssus** (Swainson, 1831)  
 Zool. Illustr. (2)2(11): pl. 48, fig. 2 ♂ D, unnumbered text.  
**Original Combination:** *Eudamus Doryssus*  
**Type Locality:** “vicinity of Bahia” [Brazil]



**Types:** Location of type(s) not known.

Drury (1782), Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 3 ♂ D, 4 ♂ V, figured this species as *Papilio orion*, citing Cramer (1777), Uitl. Kapellen 2(13): 92, pl. 155, figs. A, B. This was a misidentification of Cramer's species, not a proposal of a new name. Until revisionary work by Steinhauser is published, the synonymy of this species follows Mielke (2005), Cat. Amer. Hesp. 2: 383-385.

= *brachius* (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [105], figs. 609 ♂ D, 610 ♂ V [1826]; (text): 8, no. 305 (1832, name given).

**Original Combination:** *Goniurus Brachius*

**Type Locality:** "Brasil"

**Types:** Type probably lost.

This name was mentioned (as *Goniurus brachyus*) by Hübner [1819], Verz. bekannt. Schmett. (7): 104, without a description or indication; a *nomen nudum*.

= *leucites* (Mabille, 1888)

Naturaliste (2) 10(27): 98-99, fig. 2 ♂ D&V.

**Original Combination:** *Eudamus Leucites*

**Type Locality:** "Colombie"

**Types:** Holotype in ZMHB (Staudinger collection).

= *cleopatra* (Ehrmann, 1907)

Can. Entomol. 39(9): 323.

**Original combination:** *Thymele Cleopatra*

**Type Locality:** "Suapure, Venezuela"

**Types:** Holotype in CMNH.

= ⚔ "interruptus" (R. Williams, 1926)

Trans. Am. Entomol. Soc. 52(2): 65; figured by R. Williams (1927), Trans. Am. Entomol. Soc. 53(3): pl. 25, fig. 3.

**Original Combination:** [*Eudamus doryssus*] form *interruptus*

**Type Locality:** "San Pedro Sula, Honduras"

**Types:** "Holotype" (ANSP #7120) in CMNH.

Consistent with Williams' use of "race" and "form," this is an infrasubspecific name.

#### Genus *Astraptes* Hübner, [1819]

Verz. bekannt. Schmett. (7): 103. Type-species: *Papilio aulestes* Cramer, 1780, Uitl. Kapellen 3(24): 161, pl. 283, figs. E, F, G (= *Papilio aulestis* Cramer, 1780, Uitl. Kapellen 3(24): 173 (index); incorrect original spelling), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 122, no. 137. Hemming (1934), Gen. Names Holarct. Butts. 1: 158, made a first reviser choice of *Astraptes* Hübner, [1826] over *Telegonus* Hübner, [1826]. dos Passos (1959), Lepid. News 12(5-6): 195-198, employed the index spelling of *aulestis*, thereby avoiding homonymy, but this is subject to a review of Cramer names given a binomial combination in the index. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 63, incorrectly determined that *Papilio narcosius* Stoll, 1790, Anhangs. Werk Uitl. Kapellen Pieter Cramer (3): 171, pl. 39, fig. 8, 184 (index), was the oldest available name for *Papilio aulestes* Cramer, 1780, based on this perceived homonymy. Steinhauser (1987), Bull. Allyn Mus. (111): 1-16, detailed species-group names in this genus.

= *Telegonus* Hübner, [1819]

Verz. bekannt. Schmett. (7): 104. Type-species: *Papilio talus* Cramer, 1777, Uitl. Kapellen 2(15): 122, pl. 176, fig. D; (16): 151 (index), by designation of Butler (1870), Entomol. Mon. Mag. 7(75): 56.

= *Euthymele* Mabille, 1878

Annls. Soc. Entomol. Belg. 21: 24. Type-species: *Hesperia mercatus* Fabricius, 1793, Entomol. Syst. 3(1): 332, no. 260 (= *Papilio fuligator* Walch, 1775, Naturforscher 7: 115, pl. 1, figs. 2a, 2b; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 86.

⚔ "Creteus" Westwood, 1852

In: Gen. diurn. Lepid. (2): 511. This name was introduced by Westwood in the synonymy of *Goniloba*, which he described as new. Since this name was unintentional (Westwood meant to use *Carystus*), it is a *nomen nudum*; see Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 129.

\*32. *Astraptes fuligator* (Walch, 1775)

Naturforscher 7: 115, pl. 1, figs. 2a ♂ D, 2b ♂ V.

**Original Combination:** *Papilio Fuligator*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

Hebert *et al.* (2004), Proc. Nat. Acad. Sci. USA 101(41): 14812-14817, determined that there may be multiple species-level taxa represented by this name. It is therefore impossible to arrange an accurate synonymy at this time; the synonymy below follows Mielke (2005), Cat. Amer. Hesp. (2): 169-173.

= *mercatus* (Fabricius, 1793)

Entomol. Syst. 3(1): 332, no. 260; cited Jones' Icones 6: pl. 87, fig. D.

**Original Combination:** *H[esperia]. U[r]bicola. Mercatus*

**Type Locality:** "in Indiis Dom. Jones"

**Types:** Type(s) probably lost.

= *fulminator* (Sepp, [1841])

Surinaam. Vlinders. 1(9): 75, pl. 34, D, V, larva, pupa.

**Original Combination:** *Papilio Fulminator*

**Type Locality:** "Surinam" implied from the title of the work.

**Types:** Type(s) are lost.

= *†discalis* (Bryk, 1953)

Ark. Zool. (ns)5: 136, no. 312.

**Original Combination:** *Thymele fulgerator* fa. *discalis*

**Type Locality:** "Rooque...Bananenplantage, Ricinus-Blatt, SO Moyob" [Peru]

**Types:** "Holotype" in NHRS.

Bryk described subspecies in this paper, so this name is clearly infrasubspecific.

a. *Astraptes fulgerator azul* (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 340, no. 48.

**Original Combination:** *Goniloba azul*

**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]

**Types:** Syntype(s) may be in ANSP or CMNH.

The synonymy below is subject to review in light of possible cryptic species; see Hebert *et al.* (2004), Proc. Nat. Acad. Sci. USA 101(41): 14812-14817, and A. V. Z. Brower (2006), Syst. Biodivers. 4(2):127-132.

= *misitra* (Plötz, 1881)

Stettiner Entomol. Ztg. 42(10-12): 502, no. 8; cited unpublished pl. 61.

**Original Combination:** [*Eudamus*] *Misitra*

**Type Locality:** "Mexiko"

**Types:** Syntypes (#4983-4984) in ZMHB.

= *albifasciatus* (Röber, 1925)

Entomol. Mitt. 14(1): 96.

**Original Combination:** *Thymele albifasciatus*

**Type Locality:** "Bolivia (Rio Songo, 750 m)" [La Paz]

**Types:** Lectotype in MTD, designated by Mielke (1989), Revta. bras. Zool. 6(1): 135.

= *catemacoensis* H. Freeman, 1967

J. Lepid. Soc. 21(2): 117-118, pl. 1, 2nd row, ♂ D&V (holotype), 3rd row ♀ D&V, ♂ genitalia.

**Original Combination:** *Astraptes catemacoensis*

**Type Locality:** "Mexico, Catemaco, Vera Cruz"

**Types:** Holotype in AMNH.

H. Freeman (1982), J. Lepid. Soc. 36(3): 236-237, synonymized this taxon (which he described) under *A. f. azul*.

33. *Astraptes egregius* (Butler, 1870)

a. *Astraptes egregius egregius* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870[18](4): 494, no. 1; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 11 ♂ D.

**Original Combination:** *Telegonus egregius*, *Hesperia egregia* Herrich-Schäffer, *in litt.*

**Type Locality:** Not stated.

**Types:** Holotype in BMNH.

\*34. *Astraptes alardus* (Stoll, 1790)

Aanhangs. Werk Uittl. Kapellen Pieter Cramer (3): 171, pl. 39, fig. 7 ♂ D, 7F ♂ V; 182 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbic[ola] Alardus*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

= *fabrici* (Ehrmann, 1918)

Lepidoptera 2(4): 29.

**Original Combination:** *Telegonus fabrici*

**Type Locality:** "Cauca Valley, Venezuela"

**Types:** Holotype in CMNH.

a. *Astraptes alardus latia* Evans, 1952

Cat. Am. Hesp. Brit. Mus. (2): 111.

**Original Combination:** [*Astraptes alardus*] *latia*

**Type Locality:** "Costa Rica"

**Types:** Holotype in BMNH.

\*35. *Astraptes alector* (C. Felder & R. Felder, 1867)

Reise Novara Zool. (3): 508, no. 883, pl. 71, figs. 2 ♂ D, 3 ♂ V.

**Original Combination:** *Eudamus Alector*

**Type Locality:** "Nova Granada: Bogotá" [Colombia]

**Types:** Holotype in BMNH.

a. *Astraptes alector hopfferi* (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 90, no. 35; cited unpublished pl. 88.

**Original Combination:** [*Eudamus*] *Hopfferi Alector?* var

**Type Locality:** "Süd-Amerika"

**Types:** Type may be in ZSMC.

= *uridon* (Dyar, 1912)

Proc. U. S. Nat. Mus. 42(1885): 43.

**Original Combination:** *Thracides uridon*

**Type Locality:** "Guerrero, Mexico"

- Types:** Holotype (#14221) in USNM.  
 = *gilberti* H. Freeman, 1969  
 J. Lepid. Soc. 23(suppl. 2): 8-9, pl. 3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, pl. 4, fig. 1 ♂ genitalia.  
**Original Combination:** *Astraptes gilberti*  
**Type Locality:** "Seven miles south of Valles, (Grounds of Hotel Covadonga) San Luis Potosi, Mexico"  
**Types:** Holotype in AMNH.  
 A. Warren (2000), in: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx.2: 549, proposed this synonymy.
- \*36. ***Astraptes anaphus*** (Cramer, 1777)  
 Utl. Kapellen 2(15): 126, pl. 178, fig. F ♂ D; (16): 147 (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Anaphus*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Holotype in RMNH, discussed by de Jong (1983), Tijdschr. Entomol. 126(11): 240.  
 = *leucogramma* (Sepp, [1830])  
 Surinaam. Vlinder. 1(4): 37, pl. 15, D, V, larva, pupa.  
**Original Combination:** *Papilio Leucogramma*  
**Type Locality:** "Surinam" implied from the title of the work.  
**Types:** Type(s) are lost.  
 = *anaphides* (Mabille & Boulet, 1912)  
 Annls. Sci. Nat., Zool. (9)16(2): 75, 88.  
**Original Combination:** [*Telegonus Anaphus*] *Anaphides* nov. var.  
**Type Locality:** "Brésil"; "Bahia" on label of the type.  
**Types:** Holotype in MNHP.  
 Steinhäuser (1987), Bull. Allyn Mus. (111): 7, considered this an unavailable name. Under current rules the use of "form" or "variety" before 1961 may be interpreted as indicating a species-group name (Code Article 45.6.4), which I believe is consistent with Mabille and Boulet's intent.
- a. ***Astraptes anaphus annetta*** Evans, 1952  
 Cat. Am. Hesp. Brit. Mus. (2): 118.  
**Original Combination:** [*Astraptes anaphus*] *annetta*  
**Type Locality:** "Tres Rios, 5,000 ft.: Costa Rica"  
**Types:** Holotype in BMNH.

#### Genus *Autochton* Hübner, 1823

- Zutr. Samml. exot. Schmett. 2: 13. Type-species: *Autochton itylus* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: 13, pl. [44], figs. 249, 250, by monotypy.  
 = ‡*Cecrops* Hübner, 1818  
 Zutr. Samml. exot. Schmett. 1: 30. Type-species: *Cecrops zarex* Hübner, [1818], Zutr. Samml. exot. Schmett. 1: 30, no. 92, pl. [32], figs. 183, 184, by monotypy. Preoccupied by *Cecrops* Leach, 1816, Ency. Brit. Suppl. to 4th-6th eds. 1(2): 405.
- = *Cecropterus* Herrich-Schäffer, 1869  
 Corresp-BI. zool.-min. Ver. Regensburg 23(9): 131. Type-species: *Cecrops zarex* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 30, no. 92, pl. [32], figs. 183, 184, as a replacement name. Proposed to replace *Cecrops* Hübner, [1818], preoccupied (Code Articles 60.3, 67.8).
- = *Rhabdoides* Scudder, 1889  
 Butts. E. U. S. & Can. 3(12): 1854. Type-species: *Eudamus cellus* Boisduval & Le Conte [1837], Hist. Lépid. Amér. sept. (25): pl. 73, 4 figs., by monotypy.
37. ***Autochton cellus*** (Boisduval & Le Conte [1837])  
 Hist. Lépid. Amér. sept. (25): pl. 73, figs. [1] ♂ D, [2] ♂ V, [4] larva, [5] pupa.  
**Original Combination:** *Eudamus Cellus*  
**Type Locality:** Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot. A. Clark (1936), Smithsonian Misc. Coll. 95(7): 14, suggested that the model for Abbot's figure came from the vicinity Jacksonborough, Screven County, Georgia, but Abbot spent most of his time in Burke County.  
**Types:** The plate was a reproduction of an Abbot drawing. The types are the specimens that he painted and are probably lost. A "holotype" in BMNH was mentioned by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 121, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."  
 Burns (1984), Smithsonian Contrib. Zool. (405): 1-38, reviewed this species.  
 = *festus* (Geyer, 1837)  
 In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [156], figs. 907 ♀ D, 908 ♀ V [1836]; (text): 27, no. 454 (1837, name given).  
**Original Combination:** *Cecrops Festus*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost, but may be in ZMHB, ZSMS or NMW.
- = *mexicana* (Draudt, 1922)  
 In: Seitz, Grossschmett. Erde 5(309): 871; (313): pl. 169a ♂ & ♀ D.  
**Original Combination:** [*Rhabdoides cellus*] form *mexicana*  
**Type Locality:** "Mexiko...Orizaba" [Veracruz]  
**Types:** Location of type(s) not known, possibly in SMF.  
 Steinhäuser (1975), Bull. Allyn Mus. (29): 9, considered this to be a subspecies-level taxon.  
 = ‡*aereofuscus* (Gunder, 1925)



Entomol. News 36(7): 196, no. 6, pl. 5, fig. 6 ♂ D.

**Original Combination:** *Rhabdoides cellus* ab. ♂ *aereofuscus*

**Type Locality:** "Baboquivari Mountains, Pima County, Arizona"

**Types:** "Holotype" in AMNH.

= ♀ "leilae" (A. Clark, 1930)

Science 80(2068): 164; figured by A. Clark (1936), Smithsonian Misc. Coll. 95(7): pl. 2, figs. 1 ♀ D, 2 ♀ V ("holotype").

**Original Combination:** [*Rhabdoides cellus*] var. *leilae*

**Type Locality:** "vicinity of Washington" [District of Columbia]; further defined as "Maryland, woods just north of the unpaved portion of the Conduit Road 1.1 miles southeast of Great Falls, or just over one-half mile west of the point where the paved road from Washington turns north up the hill, leaving the conduit" by A. Clark (1936), Smithsonian Misc. Coll. 95(7): 12.

**Types:** "Holotype" in USNM.

The text clearly indicates that this taxon was described as an individual variant.

38. **Autochton pseudocellus** (Coolidge & Clemence, [1910]) †

Entomol. News 22(1): 3.

**Original Combination:** *Achalarus pseudocellus*

**Type Locality:** "Ramsey Canon, Huachuca Mountains, Cochise County, Arizona. 5,000-7,000 feet altitude"

**Types:** Syntypes in LACM.

This taxon has apparently been extirpated from the United States, as noted by Bailowitz and Brock (1991), Butts. SE Ariz.: 32.

39. **Autochton cincta** (Plötz, 1882)

Berl. Entomol. Z. 26(2): 261, no. 9; cited unpublished pl. 232.

**Original Combination:** [*Cecropterus*] *Cincta*

**Type Locality:** "Oaxaca" [Mexico]

**Types:** Location of type(s) not known.

Species-genus gender conformation is *cinctus*.

= *rotundatus* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.) (31): liii.

**Original Combination:** *Telegonus rotundatus*

**Type Locality:** "America meridionali"

**Types:** Syntypes in BMNH.

#### Genus *Achalarus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 71. Type-species: *Papilio lycidas* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 39, pl. 20, 4 figs. (= *Proteides lyciades* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 621, 622; 10, no. 311; preoccupied), by original designation.

= *Murgaria* E. Watson, 1893

Proc. Zool. Soc. Lond. 1893(1): 19, 37. Type-species: *Telegonus albociliatus* Mabille, 1877, Petites Nouv. Entomol. 2(179): 162, no. 12, by original designation.

40. **Achalarus lyciades** (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 621 ♀ D, 622 ♀ V [1826]; (text): 10, no. 311 (1832, name given); cited *Papilio lycidas* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 39-40, pl. 20.

**Original Combination:** *Proteides Lyciades*

Proposed as a replacement name for *Papilio lycidas* J. E. Smith, 1797, with the same data (Code Article 60.3). This name was mentioned (as *Proteides Lyciades*) by Hübner [1819], Verz. bekannt. Schmett. (7): 105, without a description or indication; a *nomen nudum*.

= ♀ *lycidas* J. E. Smith, 1797

In: Smith and Abbot, Ins. Georgia 1: 39-40, pl. 20, figs. ♂ D, ♂ V, larva, pupa.

**Original Combination:** *Papilio Lycidas*

**Type Locality:** "Georgia" implied from the notes to the original drawing by John Abbot.

**Types:** Described, at least in part, from a John Abbot drawing; the specimens upon which this drawing was based are presumed lost.

Preoccupied by *Papilio lycidas* Cramer, 1777, Uitl. Kapellen 2(10): 25, pl. 113, fig. A; (16): 149 (index).

♀ "hedysarum" Scudder, 1889

Butts. E. U. S. & Can. 2(10): 1418.

**Original Combination:** [*Achalarus lycidas*] = *Papilio hedysarum* Abb.

This name was mentioned in the synonymy of *Achalarus lyciades* without a description or indication; a *nomen nudum*.

41. **Achalarus casica** (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 187, no. 17.

**Original Combination:** [*Eudamus*] *casica*

**Type Locality:** Not stated.

**Types:** Type(s) may be in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 135, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *epigena* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870[18](4): 493; figured by Butler (1871), Lepid. Exot. (3): 65, pl. 25, fig. 6 ♂ V.

**Original Combination:** *Eudamus Epigena*; *Myscelus Epigena*, Herrich-Schäffer, in litt.

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

‡"orestes" W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 58.

**Original Combination:** *Thymeles Orestes*

Lintner intended to describe "*Eudamus orestes*" in 1867, but never did. Edwards listed it as a Lintner manuscript name. In this and all other listings the name "*orestes*" is a *nomen nudum*; see F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 602-603.

42. **Achalarus albociliatus** (Mabille, 1877)

a. **Achalarus albociliatus albociliatus** (Mabille, 1877)

Petites Nouv. Entomol. 2(179): 162, no. 12.

**Original Combination:** *Teleg[onus].? albociliatus*

**Type Locality:** "Colombia, Panama, Guatemala"; suggested to be "Colombia" by Evans (1952), Cat. Am. Hesp. Brit. Mus. (2): 127.

**Types:** Syntypes in IRSN.

43. **Achalarus toxeus** (Plötz, 1882)

Berl. Entomol. Z. 26(2): 258, no. 6; cited unpublished pl. 212.

**Original Combination:** [*Aethilla*] *Toxeus*

**Type Locality:** "Mexico"

**Types:** Holotype (#5054) in ZMHB.

= *coyote* (Skinner, 1892)

Can. Entomol. 24(7): 164.

**Original Combination:** *Eudamus coyote*

**Type Locality:** "Southern Texas"; lectotype from "nr. Corpus Christi, Nueces County, Texas."

**Types:** Lectotype (#7075) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, figs. 7 ♂ D, 7a ♂ V, as "type."

= *nigrociliata* (Mabille & Boulet, 1912)

Annls. Sci. Nat., Zool. (9) 16(2): 158, 159.

**Original Combination:** [*Murgaria Albociliata*] Var. *Nigrociliata*

**Type Locality:** "Mexique"

**Types:** Holotype in MNHP.

Genus **Thessia** Steinhauser, 1989

Bull. Allyn Mus. (127): 11-12. Type-species: *Eudamus athesis* Hewitson, 1867, Descr. One Hundred new Spec. Hesp. (1): 8, no. 11, by original designation.

44. **Thessia jalapus** (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 100, no. 81; cited unpublished pl. 134.

**Original Combination:** [*Eudamus*] *Jalapus*

**Type Locality:** "Jalappe" [Jalapa, Veracruz, Mexico]

**Types:** Holotype (#4960) in ZMHB.

= *xerxes* (E. Bell, 1934)

Bull. Brooklyn Entomol. Soc. 29(3): 90-92, pl. 6, fig. 2 ♂ genitalia.

**Original Combination:** *Telegonus xerxes*

**Type Locality:** "British Honduras" [Belize]

**Types:** Holotype in AMNH.

Genus **Thorybes** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 71. Type-species: *Papilio bathyllus* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 43, pl. 22, by original designation.

= ‡*Lintneria* W. H. Edwards & Butler, 1877

In: W. H. Edwards, Trans. Am. Entomol. Soc. 6(1): 57, 67. Type-species: *Papilio daunus* Cramer, 1777, Uitl. Kapellen 2(11): 44, pl. 126, fig. F (= *Papilio bathyllus* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 43, pl. 22; possibly a misidentified type species), by original designation. Preoccupied by *Lintneria* Butler, 1876, Trans. Zool. Soc. Lond. 9: 620. This genus has been treated as described twice in the same document (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 11, 177) but it is clear that the reference in the text (p. 57) is only that. In the description (p. 67), *Hesperia zampa* is mentioned as one of the species contained within the new genus *Lintneria*, but the type is given as above. See comments under *Systasea*.

= *Cocceius* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 336. Type-species: *Eudamus pylades* Scudder, 1870, Proc. Boston Soc. Nat. Hist. 13: 207, by original designation.

45. **Thorybes drusius** (W. H. Edwards, [1884])

Can. Entomol. 15(11): 211.

**Original Combination:** *Eudamus Drusius*

**Type Locality:** “So. Arizona”

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 4 ♂ D, as “type”; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 605, fig. ♂ D&V.

= *paucipuncta* Dyar, 1916

Proc. U. S. Nat. Mus. 51(2139): 4.

**Original Combination:** *Thorybes paucipuncta*

**Type Locality:** “Sierra de Guerrero, Mexico”

**Types:** Holotype (#19256) in USNM.

46. ***Thorybes bathyllus*** (J. E. Smith, 1797)

In: Smith and Abbot, Ins. Georgia 1: 43-44, pl. 22, figs. ♂ D, ♀ D, ♀ V, larva, pupa.

**Original Combination:** *Papilio Bathyllus*

**Type Locality:** “Georgia” implied from the notes to the original drawing by John Abbot; suggested to be “Burke County, Georgia” by Calhoun (2006), J. Lepid. Soc. 60(1): 31.

**Types:** Described, at least in part, from a John Abbot drawing. The male specimen which was the model for the image on plate 22 was selected as lectotype by Calhoun (2006), J. Lepid. Soc. 60(1): 31, fig. 21 ♂ D; it is probably lost.

= *daunus* (Cramer, 1777)

Uitl. Kapellen 2(11): 44, pl. 126, fig. F ♂ D; (16): 148 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbico[a]. Daunus*

**Type Locality:** “Surinamen” “Suriname”, probably in error.

**Types:** Type(s) probably lost.

The original description and illustration do not unambiguously identify this skipper. The type locality as given is outside the range of *T. bathyllus*, but may be erroneous. It is considered herein that *Papilio daunus* Cramer, 1777, is a *nomen dubium*, echoing the sentiment of W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 67.

= *syloson* (Mabille, 1903)

In: Wytzman, Gen. Ins. (17a): 39.

**Original Combination:** *Cocceius syloson*

**Type Locality:** “Cayenne”, in error. Mabille and Boulet [1919], Annls. Sci. Nat., Zool. (10)2(4-6): 232, corrected this to “Etats-Unis.”

**Types:** Syntypes in MNHP.

47. ***Thorybes pylades*** (Scudder, 1870)

a. ***Thorybes pylades pylades*** (Scudder, 1870)

Proc. Boston Soc. Nat. Hist. 13: 207; cited T. Harris (1862), Ins. injur. Veget. (3rd ed.): 312, fig. 135 ♂ D&V (as *Eudamus bathyllus*).

**Original Combination:** *Eudamus Pylades*

**Type Locality:** “Massachusetts”

**Types:** Type(s) could be in MCZ; a possible syntype was figured by Scudder (1889), Butts. E. U. S. & Can. 3(11): pl. 9, fig. 5 ♂ D&V.

= *“immaculata”* (Skinner, 1911)

Trans. Am. Entomol. Soc. 37(3): 177.

**Original Combination:** *Eudamus pylades immaculata* n. var. male

**Type Locality:** “Philadelphia” [Philadelphia County, Pennsylvania]

**Types:** “Holotype” (#7175) in ANSP.

The text clearly indicates that this taxon was described as an individual variant.

= *“integra”* Lanktree, 1968

Entomol. Rec. & J. Var. 80(9): 215-216, pl. XII, fig. 1 ♂ D, 2 ♂ V, 7 ♂ genitalia (“holotype”).

**Original Combination:** *Thorybes pylades* ab. *integra*

**Type Locality:** “N. E. of Port Franks in the hinterland of Lake Huron’s south-eastern shore”

**Types:** Location of “holotype” not known.

b. ***Thorybes pylades indistinctus*** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 501-502, figs. 1a ♂ D, 1b ♂ V (holotype); 2a ♀ D, 2b ♀ V.

**Original Combination:** *Thorybes pylades indistinctus*

**Type Locality:** “California: San Diego County; Laguna Mountains, Boiling Springs”

**Types:** Holotype in LACM.

c. ***Thorybes pylades albosuffusa*** H. Freeman, 1943

Entomol. News 54(3): 72.

**Original Combination:** *Thorybes pylades albosuffusa* new form

**Type Locality:** “Fort Davis...Texas” [Jeff Davis County]

**Types:** Holotype in AMNH.

While this name was initially described as infrasubspecific, H. Freeman (1949), Texas J. Sci. 1(3): 41, listed it as *Thorybes pylades albosuffusa* and explained its application as a subspecies-level taxon, making this name available from its original publication (Code Article 45.6.4.1).

Species-genus gender conformation is *albosuffusus*.

48. ***Thorybes confusus*** E. Bell, 1923

Trans. Am. Entomol. Soc. 48(3): 205-206.

**Original Combination:** *Thorybes confusus*

**Type Locality:** “Tampa, Florida” [Hillsborough County]

**Types:** Holotype in AMNH; paratypes figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 1 ♂ D, 2 ♀ V.



W. Holland (1931), Butt. Book (rev. ed.): 335, deliberately emended this name to *confusus*, an unjustified emendation (*contra* W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 67).

49. **Thorybes diversus** E. Bell, 1927  
Bull. Brooklyn Entomol. Soc. 22(4): 217.  
**Original Combination:** *Thorybes diversus*  
**Type Locality:** "Plumas County, California"  
**Types:** Holotype in AMNH.
- \*50. **Thorybes mexicana** (Herrich-Schäffer, 1869)  
Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 21.  
**Original Combination:** [*Eudamus*] *mexicana*  
**Type Locality:** Not stated; syntype labeled "Mexico."  
**Types:** Syntype in ZMHB.  
Species-genus gender conformation is *mexicanus*.  
= *ananius* (Plötz, 1881)  
Stettiner Entomol. Ztg. 43(1-3): 99, no. 77; cited unpublished pl. 131.  
**Original Combination:** [*Eudamus*] *Ananius*  
**Type Locality:** "Mexico"  
**Types:** Type(s) in ZMHB.  
Bridges (1988), Cat. Hesp. (I): 11, suggested that *ananius* was intended as a replacement name for *mexicana*. If so, it would be a junior objective synonym.
- a. **Thorybes mexicana aemilea** (Skinner, 1893)  
Entomol. News 4(2): 64-65.  
**Original Combination:** *Eudamus Aemilea*  
**Type Locality:** "Fort Klamath, Oregon" [Klamath County]  
**Types:** Lectotype (#7076) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): 336, pl. 46, fig. 39 ♂ D, as "type."
- b. **Thorybes mexicana nevada** Scudder, 1872  
4th Ann. Rep. Peabody Acad. Sci. (1871): 71, no. 3.  
**Original Combination:** *T[horybes]. Nevada*  
**Type Locality:** "Sierra Nevada, California (Henry Edwards)"  
**Types:** Syntype (#15828) in MCZ; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 3 ♀ (probably a ♂) D.
- c. **Thorybes mexicana blanca** Scott, 1981  
Papilio (n.s.) 1: 7.  
**Original Combination:** *Thorybes mexicana blanca*  
**Type Locality:** "Crooked Creek lab, 10150', 3 airline mi. N Inyo Co. line, Mono Co., California"  
**Types:** Holotype in EMEC.
- d. **Thorybes mexicana dobra** Evans, 1952  
Cat. Am. Hesp. Brit. Mus. (2): 131.  
**Original Combination:** [*Thorybes mexicana*] *dobra*  
**Type Locality:** "Fort Grant, Arizona" [Graham County]  
**Types:** Holotype in BMNH.

#### Genus *Cabares* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 337. Type-species: *Thanaos potrillo* Lucas, 1857, in: Sagra, Hist. Cuba 7(2): 641, by original designation.

51. **Cabares potrillo** (Lucas, 1857)  
a. **Cabares potrillo potrillo** (Lucas, 1857)  
In: Sagra, Hist. Cuba 7(2): 641.  
**Original Combination:** *Thanaos Potrillo*  
**Type Locality:** "habite l'île de Cuba" "Ce nom est donné à cette espèce, en souvenir de la montagne qui s'élève jusqu'à 3,000 mètres de haut, non loin de la Trinité"; thus, implied to be "Pico Potrerillo."  
**Types:** Type(s) probably in MNHP.  
= *paterculus* (Herrich-Schäffer, 1863)  
Corresp.-Bl. zool.-min. Ver. Regensburg 17(9): 141-142.  
**Original Combination:** *Thanaos paterculus*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Syntype (#7148) in ANSP.

#### Genus *Spathilepia* Butler, 1870

Entomol. Mon. Mag. 7(75): 57. Type-species: *Papilio clonius* Cramer, 1775, Uitl. Kapellen 1(7): 126, pl. 80, figs. C, D; (8): 152 (index), by original designation.

52. **Spathilepia clonius** (Cramer, 1775)  
Uitl. Kapellen 1(7): 126-127, pl. 80, figs. C ♂ D, D ♂ V; (8): 152 (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Clonius*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost (collection L. Juliaans).

Genus **Cogia** Butler, 1870

Trans. Entomol. Soc. Lond. (4)1870[18](4): 508. Type-species: *Cogia hassan* Butler, 1870, Trans. Entomol. Soc. Lond. (4)1870[18](4): 508, by monotypy.

= *Phoedinus* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 335. Type-species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 19, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 35. Not homonymous with "*Phoedinus*" Doumerc [1835]: 821, 825 (index), which is an incorrect subsequent spelling of *Phaedinus* Duponchel, 1834, Anns. Entomol. Soc. Fr. 3: 38; not homonymous with "*Phoedinus*" Duponchel, 1836, Mag. Zool. 6: pl. (Ins.), which is also an incorrect subsequent spelling of *Phaedinus* Duponchel, 1834; not homonymous with "*Phoedinus*" Guérin-Méneville, 1838, Rev. Zool. (Soc. Cuvier) 1838: 286, which is a duplication of the above misspelling. Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 20, stated that Godman and Salvin selected the type-species of this genus, but Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 359, correctly fixed the type-species as indicated. Tilden (1949), Bull. South. Calif. Acad. Sci. 48(1): 4-6, and (1975), J. Lepid. Soc. 29(1): 60-61, discussed the validity of this genus (and the supposed homonymy), as well as its relationship to *Cogia*. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 13-14, accepted the erroneous homonymy. Ferris (1989), Mem. Lepid. Soc. (3): 7, placed *Phoedinus* as a synonym of *Cogia*.

= ‡*Anaperus* Mabille & Boulet, 1919

Anns. Sci. Nat., Zool. (10)2(46): 232. Type-species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 19, as a replacement name; introduced to replace *Phoedinus*, erroneously thought preoccupied. Preoccupied by *Anaperus* Tröschel, 1860, Inhaltsverz. S. B. Ges. Nat. Fr. Berl. 1860: 16, and also a junior objective synonym of *Phoedinus* Godman & Salvin, 1894.

= ‡*Caicella* Hemming, 1934

Stylops 3(6): 144. Type species: *Eudamus caicus* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 19, as replacement name. Introduced to replace *Phoedinus*, erroneously thought preoccupied (and *Anaperus*, preoccupied); a junior objective synonym of *Phoedinus*.

53. **Cogia hippalus** (W. H. Edwards, 1882)

a. **Cogia hippalus hippalus** (W. H. Edwards, 1882)

Papilio 2(2): 27.

**Original Combination:** *Eudamus Hippalus*

**Type Locality:** "Tucson and at Prescott"; lectotype from "Tucson." [Pima County, Arizona]

**Types:** Lectotype (#33620) in USNM, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 609, fig. 4 ♂ D&V.

= *gila* (Plötz, 1886)

Stettiner Entomol. Ztg. 47(1-3): 91-92, no. 86b.

**Original Combination:** [*Hesperia*] *Gila*

**Type Locality:** "Arizona"

**Types:** Type(s) probably lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 151, determined this synonymy through an examination of the unpublished drawing (pl. 1370) made by Plötz.

54. **Cogia outis** (Skinner, 1894)

Entomol. News 5(10): 332; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.

**Original Combination:** *Eudamus outis*

**Type Locality:** "Blanco County, Texas"; holotype labeled "Round Mt., Texas."

**Types:** Syntype (#7072) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 11 ♂ D.

\*55. **Cogia caicus** (Herrich-Schäffer, 1869)

a. **Cogia caicus moschus** (W. H. Edwards, 1882)

Papilio 2(8): 141-142.

**Original Combination:** *Eudamus Moschus*

**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; suggested to be "vicinity of Fort Grant at the foot of Mount Graham, Graham County, Arizona" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 606.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 13 ♂ D, as "type"; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 607, fig. 3 ♂ D&V.

56. **Cogia calchas** (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 188, no. 22.

**Original Combination:** [*Eudamus*] *calchas*

**Type Locality:** Not stated; holotype from "Rio." [Rio de Janeiro, Brazil]

**Types:** Holotype in NMW.

= *terranea* (Butler, 1872)

Lepid. Exot. (8): 111, pl. 40, fig. 8 ♂ V.

**Original Combination:** S[*pathilepia*]. *Terranea*

**Type Locality:** "Cartago, Costa Rica"

**Types:** Holotype in BMNH.

= ‡*anacreon* (Plötz, 1881)

Stettiner Entomol. Ztg. 43(1-3): 99, under no. 78.

**Original Combination:** [*Eudamus*] *Calchas* [synonym] *Anacreon*

**Type Locality:** "Venezuela"

This name was listed in synonymy without a description or indication; a *nomen nudum*.

#### Subfamily **Pyrginae** Burmeister, 1878 (1877)

Descr. phys. Rép. Argentine 5(Lépid.) (1): 245. Type-genus: *Pyrgus* Hübner, [1819], Verz. bekannt. Schmett. (7): 109. Though this name is junior to *Pyrrhopygini* Mabilles, 1877, it is maintained as the most widely used name for this family group (Code Article 35.5).

#### Tribe **Pyrrhopygini** Mabilles, 1877

Petites Nouv. Entomol. 2(179): 161. Type-genus: *Pyrrhopyge* Hübner [1819], Verz. bekannt. Schmett. (7): 103.

#### Subtribe **Pyrrhopygina** Mabilles, 1877

#### Genus **Apyrrothrix** Lindsey, 1921

Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 15-16. Type-species: *Erycides araxes* Hewitson, 1867, Descr. One Hundred new Spec. Hesp. (1): 2, by original designation. The generic arrangement follows Mielke (2002), Revta. bras. Entomol. 19(1):217-228.

#### \*57. **Apyrrothrix araxes** (Hewitson, 1867)

Descr. One Hundred new Spec. Hesp. (1): 2, no. 2.

**Original Combination:** *Erycides Araxes*

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

= *cyrillus* (Plötz, 1879)

Stettiner Entomol. Ztg. 40(10-12): 529, no. 38; cited unpublished pl. 1251.

**Original Combination:** [*Pyrrhopyga*] [*sic*] *Cyrillus*

**Type Locality:** "Oaxaca" [Mexico]

**Types:** Holotype (#4926) in ZMHB.

#### a. **Apyrrothrix araxes arizonae** (Godman & Salvin, 1893)

Biol. centr.-amer., Lepid. Rhop. 2(107): 253, under no. 12.

**Original Combination:** *Pyrrhopyge arizonae*

**Type Locality:** "Arizona...the neighborhood of Fort Grant" [Graham County]

**Types:** Syntypes in BMNH.

This was treated as a species-level taxon by Burns and Janzen (2001), J. Lepid. Soc. 55(1): 38; a status questioned by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 3.

#### Tribe **Celaenorrhinini** Swinhoe, 1912

In: Moore, Lep. Ind. 10(109): 1. Type-genus: *Celaenorrhinus* Hübner, [1819], Verz. bekannt. Schmett. (7): 106.

#### Genus **Celaenorrhinus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 106-107. Type-species: *Papilio eligius* Stoll, 1781, in: Utitl. Kapellen 4(30): 123, pl. 354, fig. H; (34): 249 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 137, no. 236. de Jong (1982), J. Nat. Hist. 16(5): 695-705, discussed the morphology and systematics of *Celaenorrhinus*, and added *Charmion* and *Orneates* to the synonymy. Austin and Steinhäuser (1996), Insecta Mundi 10(1/4): 36-37, corroborated this.

= *Ancistrocampta* C. Felder & R. Felder, 1862

Wien. entomol. Monatschr. 6(6): 183. Type-species: *Ancistrocampta syllius* C. Felder & R. Felder, 1862, Wien. entomol. Monatschr. 6(6): 184, no. 170, by monotypy.

= *Hantana* Moore, [1881]

Lepid. Ceylon 1(4): 179. Type-species: *Eudamus infernus* R. Felder, 1868, Verh. zool.-bot. Ges. Wien. 18: 283 (= *Eudamus spilothyrus* R. Felder, 1868, Verh. zool.-bot. Ges. Wien. 18: 283; synonym), by original designation. First reviser choice of *spilothyrus* over *infernus* was made by Evans (1926), J. Bombay Nat. Hist. Soc. 31(1): 67.

= *Gehlota* Doherty, 1889

J. asiat. Soc. Bengal, Pt. II 58(1): 131. Type-species: *Plesioneura sumitra* Moore, [1866], Proc. Zool. Soc. Lond. 1865(3): 787, by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 49.

= *Narga* Mabilles, 1891

Annls. Soc. Entomol. Belg. 35(c.r.)(16): lxx. Type-species: *Narga chiriquensis* Mabilles, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(16): lxx (= *Tagiades monartus* Plötz, 1884, Jb. nassau. Ver. Naturk. 37: 49, no. 41; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 130.

= *Orneates* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(114): 345. Type-species: *Eudamus aegiochus* Hewitson, 1876, Ann. Mag. Nat. Hist. (4) 18(106): 350, by original designation.

= *Charmion* de Nicéville, 1894



- J. asiat. Soc. Bengal, Pt. II 63(1): 48. Type-species: *Hesperia ficulnea* Hewitson, 1868, Descr. One Hundred new Spec. Hesp. (2): 37, no. 33, by original designation.
- = *Apallaga* Strand, 1911  
Entomol. Rundsch. 28(18): 143. Type-species: *Apallaga separata* Strand, 1911, Entomol. Rdsch. 28(18): 144 (= *Pterygospidea mokeezi* Wallengren, 1857, K. svenska VetenskAkad. Handl. (4)2(1) (no. 4): 54, no. 3; subspecies), by monotypy.
58. **Celaenorrhinus fritzgaertneri** (Bailey, 1880)  
Bull. Brooklyn Entomol. Soc. 3(7): 62-63.  
**Original Combination:** *Pleusioneura* [sic!] *FritzGaertneri*  
**Type Locality:** "an old deserted mine...at a depth of eighty feet...near the Volcano de San Miguel, in the vicinity of Lama Larga in the Republic of Salvadore...six hundred feet above the sea level" [El Salvador]  
**Types:** Location of type not known (USNM?).  
= *variegatus* Godman & Salvin, 1894  
Biol. centr.-amer., Lepid. Rhop. 2(119): 383, no. 2; 3(121): pl. 85, figs. 2 ♂ D, 3 ♂ V, 4 ♂ genitalia.  
**Original Combination:** *Celaenorrhinus variegatus*  
**Type Locality:** "Mexico, Dos Arroyos, Venta de Zopilote, Tierra Colorada in Guerrero...Jalapa, Coatepec...Guatemala, Volcan de Santa Maria...Nicaragua, Chontales"  
**Types:** Syntypes in BMNH.  
Steinhauser (1975), Bull. Allyn Mus. (29): 10, determined that this taxon represents non-seasonal dimorphism.
59. **Celaenorrhinus stallingsi** H. Freeman, 1946  
Entomol. News 57(8): 185-186, fig. 1 ♂ genitalia. —  
**Original Combination:** *Celaenorrhinus stallingsi*  
**Type Locality:** "Monterrey, Mexico" [Nuevo León]  
**Types:** Holotype in PMNH; figured by Howe (1975), Butts. N. Am.: pl. 45, fig. 11 ♂ D&V.

Tribe **Carcharodini** Verity, 1940

Farfalle diurne Ital. 1: 10 (as "Carcharodidi"). Type-genus: *Carcharodus* Hübner, [1819], Verz. bekannt. Schmett. (7): 110. I.C.Z.N. *Opinions* 181 and 270 placed *Carcharodus* on the *Official List of Generic Names in Zoology* as name no. 686.

Genus **Arteurotia** Butler & H. Druce, 1872

Cist. Entomol. 1(5): 112. Type-species: *Arteurotia tractipennis* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 112, by original designation.

60. **Arteurotia tractipennis** Butler & H. Druce, 1872  
a. **Arteurotia tractipennis tractipennis** Butler & H. Druce, 1872  
Cist. Entomol. 1(5): 112; figured by Butler (1874), Lepid. Exot.: pl. 64, fig. 5 ♂ D.  
**Original Combination:** *A[rturotia]*. *Tractipennis*  
**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.  
**Types:** Holotype in BMNH.  
= *ribbei* (Staudinger, 1876)  
Verh. zool.-bot. Ges. Wien 25: 117, no. 34.  
**Original Combination:** *Helias* (?) *Ribbei*  
**Type Locality:** "aus Chiriqui" [Panama]  
**Types:** Type(s) probably in ZMHB.

Genus **Nisoniades** Hübner, [1819]

Verz. bekannt. Schmett. (7): 108. Type-species: *Papilio bromius* Stoll, 1787, Aanhangs. Werk Utitl. Kapellen Pieter Cramer (1): 37, pl. 8, figs. 1, 1A, 1B, 1C, 1D; (3): [182] (index) (= *Papilio mimas* Cramer, 1775, Utitl. Kapellen 1(5): 83, pl. 52, figs. E, F; (8): 152 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 228, no. 752.

- = *Pellicia* Plötz, 1879  
Stettiner Entomol. Ztg. 40(4/6): 176, 179. Type-species: *Pellicia macarius* Herrich-Schäffer, 1870, Corresp-Bl. zool.-min. Ver. Regensburg 24(9/10): 160, no. 1, by original designation. Preoccupied by *Pellicia* Herrich-Schäffer, 1870, Corresp-Bl. zool.-min. Ver. Regensburg 24(9/10): 159.
61. **Nisoniades rubescens** (Möschler, 1877)  
Verh. zool.-bot. Ges. Wien 26: 340-341, pl. 4, fig. 29.  
**Original Combination:** [*Pellicia*] *Rubescens*  
**Type Locality:** "Surinam...Brasilien"; suggested to be "Surinam" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49, as implied from the title of the paper.  
**Types:** Syntypes should be in NMW.  
= *bromias* (Godman & Salvin, 1894)  
Biol. centr.-amer., Lepid. Rhop. 2(118): 370, no. 4; 3(119): pl. 83, figs. 13 ♂ D, 14 ♂ V, 15 ♀ D.  
**Original Combination:** *Pellicia bromias*  
**Type Locality:** "Mexico, Acapulco, Chilpancingo, Dos Arroyos, Atoyac, Teapa...Guatemala, Dueñas...Costa Rica, Caché...Panama, Chiriqui"; suggested to be "Mexico" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.

- Types:** Syntypes in BMNH.  
 = *triangulus* (Mabille, 1898)  
 Annls. Soc. Entomol. Fr. 66(2/3): 198-199.  
**Original Combination:** *Achlyodes triangulus*  
**Type Locality:** "Tanampaya, Bolivie"  
**Types:** Syntypes probably in ZMHB (Staudinger collection).  
 = *clara* (Mabille & Bouillet, 1917)  
 Bull. Soc. Entomol. Fr. 1916(20): 323.  
**Original Combination:** *Pellicia Bromias* var. *clara*  
**Type Locality:** "Guyane française, Brésil, Argentine"; suggested to be "French Guiana" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.  
**Types:** Syntypes in MNHP.  
 = *nigra* (Mabille & Bouillet, 1917)  
 Bull. Soc. Entomol. Fr. 1916(20): 323.  
**Original Combination:** *Pellicia Bromias* var. *nigra*  
**Type Locality:** "Brésil, Argentine...Colombie, Guyane, Bolivie"; suggested to be "Brazil" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 49.  
**Types:** Syntypes in MNHP.

Genus **Pellicia** Herrich-Schäffer, 1870

Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 159. Type-species: *Pellicia dimidiata* Herrich-Schäffer, 1870, Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 160, no. 1, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 243, no. 824.

- = *Hemipteris* Mabille, 1889  
 Naturaliste (2)3(61): 216. Type-species: *Hemipteris fumida* Mabille, 1889, Naturaliste (2)3(61)[11(61)]: 216 (= *Pellicia tyana* Plötz, 1882, Berl. Entomol. Z. 26(2): 255, no. 12), by monotypy.

62. **Pellicia arina** Evans, 1953  
 Cat. Am. Hesp. Brit. Mus. (3): 58; cited Godman and Salvin (1894), Biol. centr.-amer., Lepid. Rhop. 3(119): pl. 83, figs. 16 ♂ D, 17 ♂ V (as *Pellicia costimacula*).  
**Original Combination:** [*Pellicia costimacula*] *arina*  
**Type Locality:** "Mexico, Atoyac, Vera Cruz" [Veracruz]  
**Types:** Holotype in BMNH.  
 Steinhäuser (1989), Bull. Allyn Mus. (127): 29, detailed the species-level status of this taxon, corroborating L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 15, 208, note 37.
63. **Pellicia dimidiata** Herrich-Schäffer, 1870  
 a. **Pellicia dimidiata dimidiata** Herrich-Schäffer, 1870  
 Corresp-BI. zool.-min. Ver. Regensburg 24(9/10): 160, no. 5; cited unpublished Plötz pl. 199.  
**Original Combination:** *Pellicia Dimidiata*  
**Type Locality:** "Mexico"  
**Types:** Location of type(s) unknown.  
 Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 136, determined the following synonymy through an examination of the unpublished drawings made by Plötz.  
 = *didia* Möschler, 1877  
 Verh. zool.-bot. Ges. Wien 26: 340, pl. 4, fig. 28.  
**Original Combination:** [*Pellicia*] *Didia*  
**Type Locality:** "aus dem Innern Suriname"  
**Types:** Holotype may be in NMW.  
 = *corinna* Plötz, 1882  
 Berl. Entomol. Z. 26(2): 254, no. 9; cited unpublished pl. 199.  
**Original Combination:** [*Pellicia*] *Corinna*  
**Type Locality:** "Laguayra, Mex." [Venezuela]  
**Types:** Type(s) may be in ZSMC.  
 = *nivonicus* (Plötz, 1884)  
 Jb. Nassau. Ver. Naturk. 37: 14, no. 3, cited unpublished pl. 956.  
**Original Combination:** [*Achlyodes*] *Nivonicus*  
**Type Locality:** "Mexico"  
**Types:** Type(s) may be in ZSMC.  
 = *bilinea* Mabille, 1889  
 Naturaliste (2)3(61): 216-217, fig. 3 ♂ D&V.  
**Original Combination:** *Pellicia bilinea*  
**Type Locality:** "Chiriqui" [Panama]  
**Types:** Syntype probably in ZMHB (Staudinger collection).  
 = *bobae* (Weeks, 1906)  
 Entomol. News 17(6): 203; figured by Weeks (1911), Ill. diurn. Lepid. 2: pl. 7, fig. 1 ♂ D&V.  
**Original Combination:** *Pamphila bobae*  
**Type Locality:** "Suapure, Venezuela"

- Types:** Holotype (#16717) in MCZ.  
 = *hypsipyle* Hayward, 1947  
 Acta zool. Lilloana 4: 121-122, fig. 1 ♂ genitalia.  
**Original Combination:** *Pellicia hypsipyle*  
**Type Locality:** "Villavicencio, Colombia"  
**Types:** Holotype in IMLA.

Genus **Windia** H. Freeman, 1969

J. Lepid. Soc. 23(suppl. 2): 16-17. Type-species: *Windia windi* H. Freeman, 1969, J. Lepid. Soc. 23(suppl. 2): 17-18, pl. 6, figs. 7, 8, pl. 15, fig. 6, by original designation.

64. **Windia windi** H. Freeman, 1969  
 J. Lepid. Soc. 23(suppl. 2): 17-18, pl. 6, figs. 7 ♂ D, 8 ♂ V (holotype); pl. 15, fig. 6 ♂ genitalia.  
**Original Combination:** *Windia windi*  
**Type Locality:** "Salada, Colima, Mexico"  
**Types:** Holotype in AMNH.  
 Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 7.

Genus **Noctuana** E. Bell, 1937

Am. Mus. Novit. (914): 7-8. Type-species: *Helias noctua* C. Felder & R. Felder, 1867, Reise Novara Zool. (3): 533, no. 942, pl. 74, figs. 1, 2, by original designation.

65. **Noctuana stator** (Godman & Salvin, 1899)  
 Biol. centr.-amer., Lepid. Rhop. 2(148): 460, no. 3; 3(148): pl. 91, figs. 33 ♂ D, 34 ♂ V, 35 ♂ genitalia.  
**Original Combination:** *Theagenes stator*  
**Type Locality:** "Mexico"  
**Types:** Syntypes in BMNH.  
 Recorded from Texas by [Anonymous] (2000), Am. Butts. 8(1): 43.

Genus **Bolla** Mabille, 1903

In: Wytzman, Gen. Ins. (17a): 46, 72. Type-species: *Bolla pullata* Mabille, 1903, in: Wytzman, Gen. Ins. (17a): 72 (= *Staphylus imbras* Godman & Salvin, 1896, Biol. centr.-amer., Lepid. Rhop. 2(131): 435, no. 11; 3(131): pl. 89, figs. 27 ♂ D, 28 ♂ genitalia, 29 ♀ D; synonym), by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 43. Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 79, credited Mabille with an original type-species designation, but that was in error as Mabille merely mentioned *Bolla* in conjunction with *pullata*.

66. **Bolla brennus** (Godman & Salvin, 1896)  
 a. **Bolla brennus brennus** (Godman & Salvin, 1896)  
 Biol. centr.-amer., Lepid. Rhop. 2(131): 434-435, no. 9; 3(131): pl. 89, fig. 23 ♂ D.  
**Original Combination:** *Staphylus brennus*  
**Type Locality:** "Panama...Volcan de Chiriqui 2500 to 4000 feet, David...Chiriqui"  
**Types:** Syntype(s) in BMNH.
67. **Bolla clytius** (Godman & Salvin, 1897)  
 Biol. centr.-amer., Lepid. Rhop. 2(137): 442, no. 2; 3(138): pl. 90, figs. 13 ♂ D, 14 ♂ V.  
**Original Combination:** *Pholisora clytius*  
**Type Locality:** "Mexico, Tres Marias Is." [Nayarit]  
**Types:** Syntype(s) in BMNH.  
 = *semitincta* Dyar, 1924  
 Insecutor Inscit. menstr. 12(1-3): 15.  
**Original Combination:** *Bolla semitincta*  
**Type Locality:** "Colima, Mexico"  
**Types:** Holotype in USNM.

Genus **Staphylus** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(131): 429. Type-species: *Helias ascalaphus* Staudinger, 1876, Verh. zool.-bot. Ges. Wien 25: 116, no. 31, by original designation.

- = *Scantilla* Godman & Salvin, 1896  
 Biol. centr.-amer., Lepid. Rhop. 2(131): 437. Type-species: *Scantilla opites* Godman & Salvin, 1896, Biol. centr.-amer., Lepid. Rhop. 2(131): 437; 3(138): pl. 90, figs. 3, 4, 5 (= *Tagiades vincula* Plötz, 1886, Stettiner Entomol. Ztg. 47(1-3): 113; synonym), by monotypy.

68. **Staphylus ceos** (W. H. Edwards, 1882)  
 Papilio 2(8): 140.  
**Original Combination:** *Pholisora Ceos*



**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper; suggested to be "vicinity of Fort Grant, in canyons at foot of Mount Graham, Graham County, Arizona" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 612.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613, fig. 6 ♂ D&V.

69. **Staphylus mazans** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 335, no. 35.

**Original Combination:** *Carcharodus mazans*

**Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]

**Types:** Type(s) may be lost.

Reakirt described many taxa from "coll. W. H. Edwards." Some of his types are in the Strecker collection (FMNH), and others might be in W. H. Edwards' collection (CMNH). L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 208, note 40, were unable to find the type(s) of this taxon.

70. **Staphylus hayhurstii** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 22, no. 18.

**Original Combination:** *Hesperia Hayhurstii*

**Type Locality:** "Missouri"; suggested to be "vicinity of Sedalia, Missouri" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 610-611.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 611, fig. 5 ♂ D&V.

Genus **Pholisora** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 72. Type-species: *Hesperia catullus* Fabricius, 1793, Entomol. Syst. 3(1): 348, no. 323, by original designation.

71. **Pholisora catullus** (Fabricius, 1793)

Entomol. Syst. 3(1): 348, no. 323; cited Jones' Icones 6: pl. 80, fig. 2 D&V.

**Original Combination:** *H[esperia]. U[rbicola]. Catullus*

**Type Locality:** "in Indiis. Dom. Jones"

**Types:** Type(s) probably lost.

72. **Pholisora mejicanus** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 334, no. 32.

**Original Combination:** *Nisoniades Mejicanus*

**Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]

**Types:** Type(s) may be in FMNH.

Godman and Salvin (1897), Biol. centr.-amer., Lepid. Rhop. 2(137): 441; 3: pl. 90, figs. 11 ♂ D, 12 ♂ V, used *mexicana*, but cited *mejicanus* as a synonym, so *mexicana* is an unjustified emendation.

Species-genus gender conformation is *mejicana*.

Genus **Hesperopsis** Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 118. Type-species: *Thanaos alpheus* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 206, by original designation. Stanford (1981), in: Ferris and F. Brown, Butts. Rocky Mtn. States: 87, detailed the genus-level status of this taxon.

73. **Hesperopsis libya** (Scudder, 1878)

a. **Hesperopsis libya joaquina** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (15): 202-203, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Hesperopsis libya joaquina*

**Type Locality:** "California: Kern County; McKittrick"

**Types:** Holotype in LACM.

b. **Hesperopsis libya libya** (Scudder, 1878)

Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 258.

**Original Combination:** *Heteropterus libya*

**Type Locality:** "Beaver Dam"; determined to be "Littlefield, Mohave Co., Arizona: 1846', T40N R15W, 36° 53' N/113° 56' W" by F. Brown (1967), J. Lepid. Soc. 21(2): 134.

**Types:** Syntype (#16590) in MCZ.

c. **Hesperopsis libya confertiblanca** Scott, 1992

Papilio (n.s.) 6: 173.

**Original Combination:** *Hesperopsis libya confertiblanca*

**Type Locality:** "N Montrose, Montrose Co. Colo." [Colorado]

**Types:** Holotype in LACM.

d. **Hesperopsis libya lena** (W. H. Edwards, 1882)

Can. Entomol. 14(1): 5-6.

**Original Combination:** *Ancyloxypha lena*

**Type Locality:** "Montana"

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 36 ♂ D, as "type"; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 645-646, fig. 24 ♂ D&V.

74. **Hesperopsis alpheus** (W. H. Edwards, 1876)

- a. **Hesperopsis alpheus oricus** (W. H. Edwards, 1879)  
 Can. Entomol. 11(3): 51.  
**Original Combination:** *Pholisora oricus*  
**Type Locality:** "Nevada" implied from the title of the paper; defined as "Buffalo Canyon, Desatoga Mtns., Churchill County in areas of *Atriplex canescens*" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 643-645; corrected to "Carson Valley, Douglas County, Nevada" by Austin (1998), Syst. W. N. Am. Butts. (50): 629, who determined that there are no *oricus* populations at the type locality as defined by F. Brown and L. Miller.  
**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 644, fig. 23 ♂ D&V. MacNeill (1970), Entomol. News 81(7): 182-183, elevated this taxon to the subspecies-level.  
 = *arizonensis* Mabille & Boulet, 1917  
 Bull. Soc. Entomol. Fr. 1917(4): 100.  
**Original Combination:** *Hesperopsis arizonensis*  
**Type Locality:** "Arizona, U. S."  
**Types:** Holotype in MNHP.
- b. **Hesperopsis alpheus alpheus** (W. H. Edwards, 1876)  
 Trans. Am. Entomol. Soc. 5(3/4): 206.  
**Original Combination:** *Thanaos Alpheus*  
**Type Locality:** "New Mexico"; defined as "sage brush country in Colfax County, New Mexico" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 641.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 643, fig. 22 ♂ D&V.
- c. **Hesperopsis alpheus texana** Scott, 1981  
 Papilio (n.s.) 1: 8.  
**Original Combination:** *Pholisora alpheus texana*  
**Type Locality:** "Boca Chica, 20-22 mi. E. Brownsville, Cameron Co. Texas"  
**Types:** Holotype in LACM.  
 Species-genus gender conformation is *texanus*.
75. **Hesperopsis graciellae** (MacNeill, 1970)  
 Entomol. News 81(7): 177-179, figs. 1 top row ♂&♀ D, 2nd row ♂&♀ D (spring), 2 top row ♂&♀ V, 2nd row ♂&♀ V (fall) (including holotype?), 5 ♂ head, 6 ♂ genitalia.  
**Original Combination:** *Pholisora graciellae*  
**Type Locality:** "California, San Bernardino Co., Bennett Wash, vicinity Parker Dam"  
**Types:** Holotype in CAS.  
 Scott (1981), Papilio (n.s.) 1: 8, and (1986), Butts. N. Am.: 500, considered this taxon to be conspecific with *alpheus*.

Tribe **Erynnini** Brues & F. Carpenter, 1932

Bull. Harvard Mus. Comp. Zool. 73: 235-236, couplet 156c (as "Erynninae"). Type-genus: *Erynnis* Schrank, 1801, Fauna boic. 2(1): 152, 157. Brues and Carpenter diagnosed Erynninae in a key; this is the only valid proposal of a family-group name based of the genus *Erynnis* properly identified.

Genus **Gorgythion** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(128): 424. Type-species: *Helias pyralina* Möschler, 1876, Verh. zool.-bot. Ges. Wien 26: 343, pl. 4, fig. 31 (= *Goniloba begga* Prittwitz, 1868, Stettiner Entomol. Ztg. 29(4-6): 198, no. 60; subspecies), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 88.  
 = *Escalophoides* Köhler, 1923  
 Z. wiss. InsektBiol. 18(12) (Sonderheft): 33. Type-species: *Helias tucumana* Burmeister, 1878, Descr. phys. Rép. Argentine 5(Lépid.) (1): 261-262, no. 7 (= *Goniloba begga* Prittwitz, 1868, Stettiner Entomol. Ztg. 29(4-6): 198, no. 60; subspecies), by monotypy.

- \*76. **Gorgythion begga** (Prittwitz, 1868)  
 Stettiner Entomol. Ztg. 29(4-6): 198, no. 60.  
**Original Combination:** [*Goniloba*] *Begga*  
**Type Locality:** Not stated.  
**Types:** Location of type(s) not known.  
 = *tucumana* (Burmeister, 1878)  
 Descr. phys. Rép. Argentine 5(Lépid.) (1): 261-262, no. 7.  
**Original Combination:** *Helias Tucumana*  
**Type Locality:** "Tucumán, Argentina" implied from name and title of the book.  
**Types:** Type(s) should be in MACN.
- a. **Gorgythion begga pyralina** (Möschler, 1877)  
 Verh. zool.-bot. Ges. Wien 26: 343, pl. 4, fig. 31 D.  
**Original Combination:** [*Helias*?] *Pyralina*  
**Type Locality:** "Paramaribo...dem Innern Surinams"  
**Types:** Type(s) probably in ZMHB.  
 = *marginata* Schaus, 1902  
 Proc. U. S. Nat. Mus. 24(1262): 431.  
**Original Combination:** *Gorgythion Marginata*

**Type Locality:** "Peru"

**Types:** Holotype (#5982) in USNM.

Genus **Sostrata** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 397. Type-species: *Leucochitonea scintillans* Mabille, [1877], Bull. Soc. Entomol. Fr. (5)6(3): cc (= *Hesperia bifasciata* Ménétériés, 1829, Nouv. Mém. Soc. Imp. Nat. Moscou 1: 193, pl. 7, figs. 6, 7; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 101.

77. **Sostrata nordica** Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 126.

**Original Combination:** [*Sostrata bifasciata*] *nordica*

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

Llorente *et al.* (1990), Publ. esp. Mus. Zool. 1: 30, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 51, A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 552, and other recent authors, have treated *nordica* as a species-level taxon.

Genus **Mylon** Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 384. Type-species: *Leucochitonea lassia* Hewitson, 1868, Descr. One Hundred new Spec. Hesp. (2): 49, no. 10, by original designation.

= *Eudamidas* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(121): 386. Type-species: *Papilio melander* Cramer 1780, Uitl. Kapellen 3(23): 141, pl. 270, fig. H (= *Papilio maimon* Fabricius, 1775, Syst. Entomol.: 534, no. 395; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 86.

78. **Mylon pelopidas** (Fabricius, 1793)

Entomol. Syst. 3(1): 250, no. 330; cited Jones' Icones 6: pl. 27, fig. 2 D&V.

**Original Combination:** *H[esperia]*. *U[rbicola]*. *Pelopidas*

**Type Locality:** "in Indiis. Dom. Drury"

**Types:** Type(s) probably lost.

Recorded from Arizona by K. Davis *et al.* (2005), News Lepid. Soc. 47(4): 103, 104, figs. 1-4, 106, 110-111, 114.

= *ozema* Butler, 1870

Trans. Entomol. Soc. Lond. (4)18(4): 515, no. 4.

**Original Combination:** *Achlyodes Ozema*

**Type Locality:** "Nicaragua...Honduras, St. Paulo, Tapejos"

**Types:** Syntypes in BMNH.

= ‡"*brunnea*" Mabille & Boulet, 1917

Bull. Soc. Entomol. Fr. 1917(1): 323.

**Original Combination:** *Mylon ozema* ab. *brunnea*

**Type Locality:** "Mexique, Brésil"

**Types:** "Holotype" in MNHP.

Genus **Grais** Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 381. Type-species: *Anastrus stigmaticus* Mabille, 1883, Annls. Soc. Entomol. Belg. 27(c.r.) (31): liv, by original designation.

79. **Grais stigmaticus** (Mabille, 1883)

a. **Grais stigmaticus stigmaticus** (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.) (31): liv.

**Original Combination:** *Anastrus stigmaticus*

**Type Locality:** "Brasilia"; "Chiriqui (Panama)" on label of holotype.

**Types:** Holotype in MNHP.

Species-genus gender conformation is *stigmatica*.

= *fumosus* (Plötz, 1884)

Jb. nassau. Ver. Naturk. 37: 26, no. 31; cited unpublished pl. 1017.

**Original Combination:** [*Antigonus*] *Fumosus*

**Type Locality:** "Brasilien"

**Types:** Type(s) may be in ZSMC or lost.

Genus **Timochares** Godman & Salvin, 1896

Biol. centr.-amer., Lepid. Rhop. 2(128): 417. Type-species: *Leucochitonea trifasciata* Hewitson, 1868, Descr. One Hundred new Spec. Hesp. (2): 50, no. 11, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 55.

80. **Timochares ruptifasciata** (Plötz, 1884)

Jb. nassau. Ver. Naturk. 37: 27, no. 33; cited unpublished pl. 1018.



**Original Combination:** [*Antigonus*] *Ruptifasciata*

**Type Locality:** "Süd-Amerika"

**Types:** Type(s) may be in ZSMC or lost.

Species-genus gender conformation is *ruptifasciatus*.

= *obscurior* Draudt, 1923

*In:* Seitz, Grossschmett. Erde 5(324): 907; (329): pl. 176i, fig. [7] ♂ D.

**Original Combination:** [*Timochares trifasciata*] form *obscurior*

**Type Locality:** Not precisely stated; lectotype from "Honduras: San Pedro Sula."

**Types:** Lectotype (#L 4052) in SMF, designated by Mielke and Schroeder (1994), Senckenberg. biol. 73(1/2): 139, fig. 10 ♂ genitalia.

Austin and A. Warren (2002), Dugesiana 9(2): 26, determined this synonymy.

#### Genus *Anastrus* Hübner, [1824]

Samml. exot. Schmett. 2: pl. [149]. Type-species: *Anastrus obscurus* Hübner, [1824], Samml. exot. Schmett. 2: pl. [149], figs. 3, 4, by monotypy.

= *Echelatus* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 378. Type-species: *Anastrus varius* Mabille, 1883, Anns. Soc. Entomol. Belg. 27(c.r.) (31): liv (= *Achlyodes sempiternus* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 114; synonym), by selection of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 85.

= *Gorgophone* Godman & Salvin, 1894

Biol. centr.-amer., Lepid. Rhop. 2(119): 378. Type-species: *Gorgophone meliboea* Godman & Salvin, 1894, Biol. centr.-amer., Lepid. Rhop. 2(119): 378; 3(120): pl. 84, figs. 13, 14, by monotypy.

#### 81. *Anastrus sempiternus* (Butler & H. Druce, 1872)

a. *Anastrus sempiternus sempiternus* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 114.

**Original Combination:** A[*chlyodes*]. *Sempiternus*

**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.

**Types:** Holotype in BMNH.

Recorded from Texas by Bordelon and Knudson (2003), News Lepid. Soc. 45(1): 5 figs. A, B, 7.

= *varius* Mabille, 1883

Anns. Soc. Entomol. Belg. 27(c.r.) (31): liv-lv.

**Original Combination:** *Anastrus varius*

**Type Locality:** "Venezuela"

**Types:** Type(s) may be in MNHP.

#### Genus *Chiomara* Godman & Salvin, 1899

Biol. centr.-amer., Lepid. Rhop. 2(147): 453. Type-species: *Achlyodes mithrax* Möschler, 1879, Verh. zool.-bot. Ges. Wien 28: 225, no. 34, by original designation.

#### 82. *Chiomara georgina* (Reakirt, 1868)

a. *Chiomara georgina georgina* (Reakirt, 1868)

Proc. Acad. Nat. Sci. Philad. 20: 88, no. 53.

**Original Combination:** *Pyrgus Georgina*

**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]

**Types:** Type(s) apparently lost.

Reakirt described many taxa from "coll. W. H. Edwards." Some of his types are in the Strecker collection (FMNH), and others might be in W. H. Edwards' collection (CMNH). L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 208, note 40, were unable to find the type(s) of this taxon. A. Warren (2000), *in:* Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 554, and other recent authors, treated this as a species-level taxon.

#### 83. *Chiomara mithrax* (Möschler, 1879)

Verh. zool.-bot. Ges. Wien 28: 225, no. 34.

**Original Combination:** *Achlyodes mithrax*

**Type Locality:** "Colombien"

**Types:** Type(s) probably in NMW.

Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 8.

= *noctula* (Plötz, 1884)

Jb. nassau. Ver. Naturk. 37: 15, no. 12; cited unpublished pl. 965.

**Original Combination:** [*Achlyodes*] *Noctula*

**Type Locality:** "Parà" [Brazil]

**Types:** Type(s) may be in ZMHB or lost.

= *gundlachi* Skinner & Ramsden, 1924

Proc. Acad. Nat. Sci. Philad. 75: 314.

**Original Combination:** *Cycloglypha gundlachi*

**Type Locality:** "Guantanamo, Cuba"

**Types:** Holotype (#7083) in ANSP.

‡"selma" (W. F. Kirby, 1879)

Cat. Coll. Diurn. Lepid. Hewitson: 243.

**Original Combination:** *Nisoniades Selma*

**Type Locality:** "Cayenne, Amazon, Venezuela, Rio...Bolivia...Nicaragua...Minas Geraes...Calabar...Delagoa Bay...Ega"

This name was mentioned without a description or indication; a *nomen nudum*.

#### Genus *Gesta* Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 171, 200. Type-species: *Thanaos gesta* Herrich-Schäffer, 1863, Corresp-BI. zool.-min. Ver. Regensburg 17: 142, by original designation.

#### 84. *Gesta invisus* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 114.

**Original Combination:** *T[hanaos]*. *Invisus*

**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.

**Types:** Holotype in BMNH.

Austin and A. Warren (2002), *Dugesiana* 9(2): 30, and other recent authors, treated *G. invisus* as a species-level taxon.

= *gorgona* (Plötz, 1884)

Jb. nassau. Ver. Naturk. 37: 15, no. 11; cited unpublished pl. 963.

**Original Combination:** *Achlyodes gorgona*

**Type Locality:** "Guatemala"

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 148, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *llano* (Dodge, 1903)

Can. Entomol. 35(3): 78.

**Original Combination:** *Nisoniades llano*

**Type Locality:** "Llano, Texas" [Llano County]

**Types:** Holotype was in CAS, destroyed in the 1906 San Francisco earthquake and fire.

#### Genus *Ephyriades* Hübner, [1819]

Verz. bekannt. Schmett. (7): 111. Type-species: *Papilio otreus* Stoll, 1780, Uitl. Kapellen 4(28): 78, pl. 328, fig. F, (34): 252 (index) (= *Papilio philemon* Fabricius, 1775, Syst. Entomol.: 534, no. 392; synonym: a subspecies of *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 164, no. 384.

= *Melanthes* Mabilite, 1903

In: Wytzman, Gen. Ins. (17a): 47, 80. Type-species: *Nisoniades brunnea* Herrich-Schäffer, 1865, Corresp-BI. zool.-min. Ver. Regensburg 18(11/12): 172, no. 3, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 48.

= *Brachycoryne* Mabilite, 1883

Annls. Soc. Entomol. Belg. 27(c.r.) (31): liii (as "*Brachycorynae*"). Type-species: *Papilio flyas* Stoll, 1780, Uitl. Kapellen 4(28): 78, pl. 328, fig. E; (34): 249 (index) (= *Papilio philemon* Fabricius, 1775, Syst. Entomol.: 534, no. 392; synonym: a subspecies of *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: index), by monotypy. It has been considered by some (e.g., Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 80) that this name only became available when Mabilite later published it in 1904 (in: Wytzman, Gen. Ins. (17b): 47, 81); however, *Brachycoryne* Mabilite, 1883, is available from its first use (Code Article 32.5.2.7).

#### \*85. *Ephyriades brunnea* (Herrich-Schäffer, 1865)

Corresp-BI. zool.-min. Ver. Regensburg 18(11/12): 172, no. 3.

**Original Combination:** [*Nisoniades*] *brunnea*

**Type Locality:** "Cuba" implied from the title of the paper and label of the syntype.

**Types:** Syntype (#7155) in ANSP.

Species-genus gender conformation is *brunneus*.

= *electra* (Lintner, 1881)

Can. Entomol. 13(4): 63-65.

**Original Combination:** *Eudamus Electra*

**Type Locality:** "Hamilton, Ontario"; apparently an accidental import.

**Types:** Holotype in CMNH.

#### a. *Ephyriades brunnea floridensis* E. Bell & W. Comstock, 1948

Am. Mus. Novit. (1379): 17-18, fig. 14, ♂ genitalia.

**Original Combination:** *Ephyriades brunnea floridensis*

**Type Locality:** "Key Largo, Florida" [Monroe County]

**Types:** Holotype in AMNH.

#### Genus *Erynnis* Schrank, 1801

Fauna boic. 2(1): 152, 157. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 71.

- = ‡*Thymele* [Fabricius], 1807  
In: Illiger, Mag. f. Insektenk. 6: 287, no. 39. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Westwood (1840), Intro. Class. Ins. 2, Syn.: 88. I.C.Z.N. *Opinion* 232 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 49; it is also a junior objective synonym of *Erynnis* Schrank, 1801.
- = ‡"Thymale" Oken, 1815  
Lehrbuch Naturgesch. 3(Zool.) (1): 757, 758. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Hemming (1933), Entomol. 66(10)[845]: 225. This is possibly an incorrect subsequent spelling of *Thymele* [Fabricius], 1807, and is also a junior objective synonym of *Erynnis* Schrank, 1801. The original publication was placed on the list of rejected works in *Opinion* 417 and this name is unavailable (Code Article 80.7.2).
- = ‡*Astycus* Hübner, 1822  
Syst.-alph. Verz.: 1, 3, 5, 6, 8-10. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Hemming (1933), Entomol. 66(9)[844]: 200. A junior objective synonym of *Erynnis* Schrank, 1801.
- = ‡*Thanaos* Boisduval, [1834]  
Icon. Hist. Lépid. Europ. 1(23): 240. Type-species: *Papilio tages* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 168, by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 469. This name is a junior objective synonym of *Erynnis* Schrank, 1801; it was unjustifiably emended to "Thanatos" by [Dunning and Pickard] [1859], *Accentuated List Brit. Lepid.*: 6.
- = ‡*Hallia* Tutt, [1906]  
Nat. Hist. Brit. Butts. 1(8/9): 261. Type-species: *Thanaos marloyi* Boisduval, [1834], Icon. Hist. Lépid. Europ. 1(24): 241, pl. 47, figs. 6, 7, by original designation. Preoccupied by *Hallia* G. Edwards & Haime, 1850, Brit. foss. Corals (Pal. Soc. 3): lxvi.
- = *Erynnides* Burns, 1964  
Univ. Calif. Publ. Entomol. 37: 24-25. Type-species: *Nisoniades proprius* Scudder & Burgess, 1870, Proc. Boston Soc. Nat. Hist. 13: 298, fig. 11, by original designation.

*icelus* group Burns, 1964

Univ. Calif. Publ. Entomol. 37: 27.

- 86. ***Erynnis icelus*** (Scudder & Burgess, 1870)  
Proc. Boston Soc. Nat. Hist. 13: 288, fig. 3 ♂ valvae; figured by Scudder (1889), Butts. E. U. S. & Can. 2 (8): pl. 28; (9): pl. 77; (10): pl. 85; (11): pl. 9, fig. 6 ♂ D&V.  
**Original Combination:** *Nisoniades Icelus*  
**Type Locality:** "New England" Scudder (1889), Butts. E. U. S. & Can. 2(10): 1510-1511, mentioned several possible localities "in the White Mountain valleys and even in the subalpine region of the White Mountains in abundance...in Massachusetts...from Andover...Amherst Notch...Nantucket...vicinity of Boston...in Connecticut...New Britain"; a syntype is from "Center." [Karner, Albany County, New York]  
**Types:** Syntype in NYSM.  
Lintner (1872), Entomol. Contr. 2: 30-31, pl. 7, figs. 5 ♂ D, 6 ♂ V, redescribed this taxon, using the same name, from "Center" and "Schoharie, N. Y."  
= *bautista* (Plötz, 1884)  
Jb. Nassau. Ver. Naturk. 37: 36, no. 2; cited unpublished pl. 1048 (as *tages*).  
**Original Combination:** [*Nisoniades*] *Bautista*  
**Type Locality:** "Californien"  
**Types:** Type(s) may be in ZSMC or lost.  
‡"hamamaelidis" (Scudder, 1889)  
Butts. E. U. S. & Can. 2(10): 1507.  
**Original Combination:** [*Thanaos icelus*] = *Nisoniades hamamaelidis* Fitch manuscript  
Proposed for a manuscript name of Fitch's without a description or indication; a *nomen nudum*.
- 87. ***Erynnis brizo*** (Boisduval & Le Conte, [1837])
  - a. ***Erynnis brizo somnus*** (Lintner, 1881)  
Papilio 1(5): 73-74.  
**Original Combination:** *Nisoniades Somnus*  
**Type Locality:** "Indian River, Florida"; suggested to be "Georgiana, approximately 5 km south of the city of Merriut Island, Brevard County, Florida" by Calhoun (1993), J. Lepid. Soc. 47(1): 50.  
**Types:** Lectotype in CMNH, designated by Calhoun (1993), J. Lepid. Soc. 47(1): 50, fig. 1 ♂ D (lectotype); figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 3 ♂ D.
  - b. ***Erynnis brizo brizo*** (Boisduval & Le Conte, [1837])  
Hist. Lépid. Amér. sept. (23): pl. 66, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D; drawings of larva and pupa suspect.  
**Original Combination:** *Thanaos Brizo*  
**Type Locality:** Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot. A. Clark (1936), Smithsonian Misc. Coll. 95(7): 14, suggested that the model for Abbot's figure came from the vicinity of Jacksonborough, Screven County Georgia, but Abbot spent most of his time in Burke County.  
**Types:** The plate was a reproduction of a John Abbot drawing. The types are the specimens that he painted and are probably lost. There may be "types" in USNM or BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."
  - c. ***Erynnis brizo burgessi*** (Skinner, 1914)  
Trans. Am. Entomol. Soc. 40(3): 203, fig. ♂ genitalia.  
**Original Combination:** *Thanaos burgessi*  
**Type Locality:** "Arizona...Mt. Graham"; holotype labeled "Mt. Graham, Arizona." [Graham County]



**Types:** Holotype (#7089) in ANSP.

d. **Erynnis brizo lacustra** (W. G. Wright, 1905)

Butts. W. Coast: 69, no. 480; 253, no. 480, pl. 32, figs. 480 ♂ D (lectotype), 480a ♂ V.

**Original Combination:** [*Eudamus*] *Lacustra*; *Nisoniades Lacustra*

**Type Locality:** "Central California" "Blue Lakes, California" [Lake County]

**Types:** Lectotype (#4325) in CAS, designated by Burns (1964), Univ. Calif. Publ. Entomol. 37: 58-59.

In its original description, this name was incorrectly applied to *E. pacuvius callidus* (Grinnell, 1904), a problem resolved by Burns (1964), *ibid.*

juvenalis group Burns, 1964

Univ. Calif. Publ. Entomol. 37: 27.

88. **Erynnis juvenalis** (Fabricius, 1793)

a. **Erynnis juvenalis juvenalis** (Fabricius, 1793)

Entomol. Syst. 3(1): 339-340, no. 291; cited Jones' Icones 6: pl. 78, fig. 1.

**Original Combination:** *H[esperia]*. *U[rbicola]*. *Juvenalis*

**Type Locality:** "in America Dom. Jones"

**Types:** Type(s) probably lost.

= *juvenis* (Hübner, [1819])

Verz. bekannt. Schmett. (7): 108, no. 1163, cited *Papilio juvenalis* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: pl. 21.

**Original Combination:** *Nisoniades juvenis*

**Type Locality:** Not stated, but "Georgia" implied from John Abbot's figures; "Virginia" is also mentioned by Abbot in his notes for this drawing.

**Types:** Described, by indication, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. The figures on plate 21 represent *Erynnis brizo* and either *Erynnis juvenalis* or *Erynnis horatius* (Calhoun pers. comm. 2006).

= *costalis* (Westwood, 1852)

In: Gen. diurn. Lepid. (2): pl. 79, fig. 3 ♂ D; (54): 519.

**Original Combination:** *Nisoniades Costalis*

**Type Locality:** Not stated.

**Types:** Syntype in BMNH.

= *ennius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 296, fig. 9 ♂ valvae.

**Original Combination:** *Nisoniades Ennius*

**Type Locality:** "New England"

**Types:** Holotype (#15836) in MCZ.

= *plautus* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 304, fig. 16 ♂ valvae.

**Original Combination:** *Nisoniades Plautus*

**Type Locality:** "Florida"

**Types:** Holotype (#15830) in MCZ.

b. **Erynnis juvenalis clitus** (W. H. Edwards, 1883)

Papilio 2(9/10): 180.

**Original Combination:** *Thanaos Clitus*

**Type Locality:** Not stated; subsequently listed from "Mt. Graham" by W. H. Edwards (1883), Papilio 3(3): 65; the lectotype is from this locality. [Graham County, Arizona]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 621, figs. 9 ♂ D&V, 10 ♂ genitalia.

W. H. Edwards described this taxon from a mixed series in his possession, but W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 124, selected a specimen from Neumoegen's collection, not seen by Edwards, as the "type." F. Brown and L. Miller determined that the true type-series was that in Edwards' own collection and acted accordingly.

= *maestus* (Godman, 1899)

Biol. centr.-amer., Lepid. Rhop. 2(148): 457; 3: pl. 91, fig. 18 ♂ D.

**Original Combination:** *Thanaos maestus*

**Type Locality:** "North America, Arizona-Mexico, Pinal, Puebla"

**Types:** Syntypes in BMNH.

89. **Erynnis telemachus** Burns, 1960

Wasmann J. Biol. 18(1): 148-151, figs. 1 ♂ D (holotype), 2 ♀ D, 3-4 ♂ genitalia (holotype), 6 section of D forewing.

**Original Combination:** *Erynnis telemachus*

**Type Locality:** "Hualapai Mountains, elevation 6,500 feet, 10 miles southeast of Kingman, Mohave County, Arizona"

**Types:** Holotype in AMNH.

90. **Erynnis propertius** (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 298, fig. 11 ♂ valvae.

**Original Combination:** *Nisoniades Propertius*

**Type Locality:** "California"

**Types:** Syntypes (#15837) in MCZ; Lintner (1881), Papilio 1(5): 71, discussed the type-series, which included two specimens from "Mokiah Pass", one from "Juniper Mountains", one from "Sierra Nevada" and four from "California." Obviously, a Californian

specimen should be designated lectotype.

Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 212, included this taxon as a subspecies of *E. juvenalis* (Fabricius, 1793); Burns (1964), Univ. Calif. Publ. Entomol. 37: 94-107, subsequently detailed its species-level status.

= *tibullus* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 299, fig. 12 ♂ valvae.

**Original Combination:** *Nisoniades Tibullus*

**Type Locality:** "California"

**Types:** Holotype (#15829) in MCZ.

91. *Erynnis meridianus* E. Bell, 1927

a. *Erynnis meridianus meridianus* E. Bell, 1927

J. N. Y. Entomol. Soc. 35(3): 261; ♂ genitalia figured by Lindsey *et al.* (1931), Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): pl. 25, fig. 6.

**Original Combination:** *Erynnis meridianus*

**Type Locality:** "White Mountains, Arizona"

**Types:** Holotype in AMNH.

92. *Erynnis scudderi* (Skinner, 1914)

Trans. Am. Entomol. Soc. 40(3): 215, fig. ♂ genitalia.

**Original Combination:** *Thanaos scudderi*

**Type Locality:** "Fort Grant, Arizona"; suggested to be "somewhere on Mount Graham" by Burns (1964), Univ. Calif. Publ. Entomol. 37: 113. [Graham County] Burns (1964), *ibid.*, discussed the type locality of this species, emphasizing that Fort Grant is a lowland locality and that the type must have come from the flanks of Mt. Graham.

**Types:** Holotype (#7088) in ANSP.

93. *Erynnis horatius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 301-302, fig. 13 ♂ valvae; figured by Scudder (1889), Butts. E. U. S. & Can. 2(11): pl. 9, figs. 7 ♀ D, 10 ♂ D&V.

**Original Combination:** *Nisoniades Horatius*

**Type Locality:** "Massachusetts...New England, Texas"

**Types:** Syntype (#15832) in MCZ.

= *virgilius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 302, fig. 14 ♂ valvae.

**Original Combination:** *Nisoniades Virgilius*

**Type Locality:** "New England"

**Types:** Type(s) may be in MCZ.

= *petronius* (Lintner, 1881)

Papilio 1(5): 70-71.

**Original Combination:** *Nisoniades Petronius*

**Type Locality:** "Indian River, Florida" [Brevard County]

**Types:** Syntypes (#6248, 6249) in NYSM.

This name was listed as "*Nisoniades petronius*", but not described, by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): 786; a *nomen nudum*.

94. *Erynnis tristis* (Boisduval, 1852)

a. *Erynnis tristis tristis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10: 311; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2081 ♂ D&V (lectotype).

**Original Combination:** *Thanaos tristis*

**Type Locality:** "Californie" implied from the title of the paper; suggested to be "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, figs. 120 ♂ D, 121 ♂ V.

b. *Erynnis tristis tatus* (W. H. Edwards, 1883)

Papilio 2(9/10): 179-180.

**Original Combination:** *Thanaos Tatus*

**Type Locality:** Not stated; subsequently listed from "Mt. Graham" by W. H. Edwards (1883), Papilio 3(3): 65. [Graham County, Arizona]

**Types:** Holotype (#33630) in USNM, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, figs. 15 ♂ D, 16 ♂ V, and F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 620, fig. 11 ♂ D&V, 622, 12 ♂ genitalia.

= *albomarginatus* (Godman, 1899)

Biol. centr.-amer., Lepid. Rhop. 2(148): 458, no. 5; 3(148): pl. 91, figs. 19 ♂ D, 20 ♂ V, 21 ♂ genitalia, 22 ♀ D, 23 ♀ V.

**Original Combination:** *Thanaos albomarginatus*

**Type Locality:** "Mexico, Cordova...Guatemala, Chisoy Valley...San Gerónimo...Costa Rica...Irazu...Panama, Chiriqui...Volcan de Chiriqui...Colombia"

**Types:** Syntypes in BMNH.

zarucco group Burns, 1964

Univ. Calif. Publ. Entomol. 37: 28.

95. *Erynnis martialis* (Scudder, [1870])

Trans. Chicago Acad. Sci. 1(2): 335, no. 35.

**Original Combination:** *Nisoniades Martialis*

**Type Locality:** "New Jefferson...open prairie...lower half of Dallas county"; on page 328 Scudder stated "New Jefferson may be anywhere along a devious, hundred-mile route beginning at Denison, including Wall Lake and Grant City, and terminating at New Jefferson." [Iowa]

**Types:** Syntype (#15834) in MCZ.

= *ausonius* (Lintner, 1872)

Entomol. Contr. 2: 34-35, pl. 7, figs. 11 ♂ D, 12 ♂ V.

**Original Combination:** *Nisoniades Ausonius*

**Type Locality:** "Center" [Karner, Albany County, New York]

**Types:** Holotype (#3256) in NYSM; ♂ genitalia figured by Cook (1905), J. N. Y. Entomol. Soc. 14(3): pl. 2, fig. 2.

♀ "quercus" (Butler, 1870)

Entomol. Mon. Mag. 7(77): 97. -

**Original Combination:** [*Thanaos quercus*]

This name was mentioned in the synonymy of *martialis* without a description or indication; a *nomen nudum*.

96. **Erynnis pacuvius** (Lintner, 1878)

a. **Erynnis pacuvius pacuvius** (Lintner, 1878)

Entomol. Contr. 4: 60-61.

**Original Combination:** *Nisoniades Pacuvius*

**Type Locality:** "New Mexico"

**Types:** Holotype (#5200) in NYSM.

W. H. Edwards (1877), Trans. Am. Entomol. Soc. 6(1): 57, no. 485, listed *Thanaos pacuvius* in reference to a Lintner publication. There was no previous description of *pacuvius* by Lintner so this listing represents a *nomen nudum*.

b. **Erynnis pacuvius lilium** (Dyar, 1904)

Proc. U. S. Nat. Mus. 27(1376): 788.

**Original Combination:** *Thanaos lilium*

**Type Locality:** "Kaslo, British Columbia" inferred from text; holotype from "Kaslo, elevation 1,670 feet, Kootenai District, British Columbia", as noted by Burns (1964), Univ. Calif. Publ. Entomol. 37: 159.

**Types:** Holotype (#7333) in USNM.

c. **Erynnis pacuvius pernigra** (F. Grinnell, 1905)

Entomol. News 16(2): 34-35.

**Original Combination:** *Thanaos pernigra*

**Type Locality:** "Mt. Tamalpais, Marin Co., California...in Mill Valley, on the slopes of Mt. Tamalpais"

**Types:** Holotype in AMNH.

Species-genus gender conformation is *perniger*.

d. **Erynnis pacuvius callidus** (F. Grinnell, 1904)

Entomol. News 15(4): 114-115, figs. 1 valve, 2 uncus, 3 penis.

**Original Combination:** *Thanaos callidus*

**Type Locality:** "Mt. Wilson, Sierra Madre Mountains, Los Angeles County, California. Altitude, 5886 feet" [San Gabriel Mtns.]

**Types:** Lectotype in AMNH, designated by dos Passos (1947), Am. Mus. Novit. (1337): 1.

97. **Erynnis zarucco** (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 641-642.

**Original Combination:** *Thanaos Zarucco*

**Type Locality:** "habite l'île de Cuba"

**Types:** Type(s) probably in MNHP.

= *diogenes* (Plötz, 1884)

Jb. nassau. Ver. Naturk. 37: 34, no. 62; cited unpublished pl. 1041.

**Original Combination:** [*Antigonus*] *Diogenes*

**Type Locality:** "Cuba"

**Types:** Type(s) may be in ZSMC or lost.

= *terentius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 292, fig. 6 ♂ valvae; figured by Scudder (1889), Butts. E. U. S. & Can. 2(11): pl. 9, fig. 15 ♀ D&V.

**Original Combination:** *Nisoniades Terentius*

**Type Locality:** "Florida"

**Types:** Syntype (#15833) in MCZ.

Scott (1998), Papilio (n.s.) 11: 8, made a first reviser choice of *terentius* over *ovidius* (below). Furthermore, he suggested that *terentius* be regarded as a mainland subspecies of *zarucco*. A more substantial analysis is needed. This synonymy follows Mielke (2005), Cat. Amer. Hesp. 3: 551-553.

= *ovidius* (Scudder & Burgess, 1870)

Proc. Boston Soc. Nat. Hist. 13: 295, fig. 8 ♂ valvae.

**Original Combination:** *Nisoniades Ovidius*

**Type Locality:** "Florida"

**Types:** Type(s) may be in MCZ.

= *naevius* (Lintner, 1881)

Papilio 1(5): 69.

**Original Combination:** *Nisoniades Naevius*



**Type Locality:** "Indian River, Florida" [Brevard County]

**Types:** Syntypes (#7771, 6247) in NYSM.

98. **Erynnis funeralis** (Scudder & Burgess, 1870)  
Proc. Boston Soc. Nat. Hist. 13: 293, fig. 7 ♂ valvae.  
**Original Combination:** *Nisoniades funeralis*  
**Type Locality:** "This Texan species"  
**Types:** Syntype (#15831) in MCZ.  
Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 209, followed by Scott (1981), J. Res. Lepid. 20(1): 60, and (1986), Butts. N. Am.: 492, no. 656, considered this taxon to be a subspecies of *zarucco* (Lucas, 1857); the arrangement employed by Mielke (2005), Cat. Amer. Hesp. 3: 526-528, is followed here.  
= *clercalis* Burmeister, 1875  
Revue Mag. Zool. (3) 3: 64, pl. 1, figs. 3, 7, 10 (not 5).  
**Original Combination:** *H[esperia]. Phebodes [sic!] clericalis*  
**Type Locality:** "Cordova" [Córdoba, Argentina]  
**Types:** Syntype in MACN.  
= *australis* (Mabille, 1883)  
Annls. Soc. Entomol. Belg. 27(c.r.) (31): liv.  
**Original Combination:** *Nisoniades australis*  
**Type Locality:** "E Colombia"  
**Types:** Type(s) may be in MNHP.
- persius* group Burns, 1964  
Univ. Calif. Publ. Entomol. 37: 28.
99. **Erynnis baptisiae** (W. Forbes, 1936)  
Psyche 43(4): 111-112, fig. 2 ♂ genitalia, valvae.  
**Original Combination:** *Thanaos baptisiae*  
**Type Locality:** "Woods Hole, Mass." [Barnstable County, Massachusetts]  
**Types:** Holotype (#1391) in CUIC.
100. **Erynnis lucilius** (Scudder & Burgess, 1870)  
Proc. Boston Soc. Nat. Hist. 13: 287, fig. 2 ♂ valve; figured by Scudder (1889), Butts. E. U. S. & Can. 2 (9): pl. 36, figs. 4, 5, 6; (11): pl. 9, fig. 4 ♂ D&V.  
**Original Combination:** *Nisoniades Lucilius*  
**Type Locality:** "New England" Lintner (1872), Entomol. Contr. 2: 32-35, pl. 7, figs. 1 ♀ D, 2 ♂ V, subsequently redescribed this species from "Schoharie...Bethlehem." [New York]  
**Types:** Syntype (#2966) in NYSM.
101. **Erynnis afranius** (Lintner, 1878)  
Entomol. Contr. 4: 63-64.  
**Original Combination:** *Nisoniades Afranius*  
**Type Locality:** "Colorado"  
**Types:** Holotype in CMNH.
102. **Erynnis persius** (Scudder, 1863)  
W. Forbes (1936), Psyche 43(4): 104-113, demonstrated that Scudder confused this species and *baptisiae*, both in biological and morphological details. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 21, note 60, claimed to follow Burns (1964), Univ. Calif. Publ. Entomol. 37: 191-194, in their application of names to this complex. Burns, however, advised against using subspecies for *E. persius* until the group could be studied in more detail. Austin (1981), J. Res. Lepid. 19(4): 242, concurred. The situation remains unclear and subspecies are employed following L. Miller and F. Brown (1981), *ibid.*, and Ferris (1989), Mem. Lepid. Soc. (3): 69.
  - a. **Erynnis persius persius** (Scudder, 1863)  
Proc. Essex Inst. 3: 170, no. 58; figured by Scudder (1889), Butts. E. U. S. & Can. 2(11): pl. 9, fig. 1 ♂ D&V; (9): pl. 36, figs. 1, 2, 3, but some of these figures might represent *baptisiae*, ♂ valvae figured by Scudder and Burgess (1870), Proc. Boston Soc. Nat. Hist. 13: fig. 1.  
**Original Combination:** *Nisoniades Persius*  
**Type Locality:** Not specifically stated; "New England" implied from the title of the paper. The "type" is from "Mass." according to W. Forbes (1936), Psyche 43(4): fig. 5. Scudder (1889), Butts. E. U. S. & Can. 2(10): 1472, mentioned "the White Mountains" as one locality where this species was collected.  
**Types:** Syntype (#15835) in MCZ.
  - b. **Erynnis persius borealis** (M. Cary, 1906)  
Proc. U. S. Nat. Mus. 31(1488): 455.  
**Original Combination:** *Thanaos propertius* var. *borealis*  
**Type Locality:** "mouth North Nahanni River, Mackenzie" [District of Mackenzie, Northwest Territories]  
**Types:** Holotype (#9869) in USNM.
  - c. **Erynnis persius avinoffi** (W. Holland, 1930)  
Ann. Carnegie Mus. 19(3): 156-157; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, figs. 28 ♂ D, 29 ♀ D.  
**Original Combination:** *Thanaos avinoffi*  
**Type Locality:** "various points in the Yukon Valley, the valley of the Kuskokwim, and various other points in Alaska"  
**Types:** Holotype in CMNH.

- d. *Erynnis persius fredericki* H. Freeman, 1943  
 Entomol. News 54(3): 74.  
**Original Combination:** *Erynnis persius fredericki*  
**Type Locality:** "near Lead, Spearfish Canyon...South Dakota" [Lawrence County]  
**Types:** Holotype in AMNH.  
 ‡"rutilius" Mead, 1875  
 Rep. Coll. diurn. Lepid. 5(Zool.): 787.  
**Original Combination:** *Thanaos Rutilius* Scudder, manuscript  
**Type Locality:** "Turkey Creek Junction" [Jefferson County, Colorado]  
 This name was listed without a description or indication; a *nomen nudum*.

Tribe **Achlyodidini** Burmeister, 1878

Descr. phys. Rép. Argentine 5(Lép.)(1): 245, 254 (as "Achlyodidae"). Type-genus: *Achlyodes* Hübner, [1819], Verz. bekannt. Schmett. (7): 108.

Genus **Achlyodes** Hübner, [1819]

Verz. bekannt. Schmett. (7): 107-108. Type-species: *Papilio busirus* Cramer, 1779, Uitl. Kapellen 3(22): 119, pl. 261, figs. A, B, C; 3(24): 174 (index), by designation of Butler (1870), Entomol. Mon. Mag. 7(77): 98.

= ‡*Sebaldia* Mabille, 1903

In: Wytzman, Gen. Ins. (17a): 77. Type-species: *Papilio busirus* Cramer, 1779, Uitl. Kapellen 3(22): 119, pl. 261, figs. A, B, C, by monotypy. A junior objective synonym of *Achlyodes* Hübner, [1819].

103. *Achlyodes pallida* (R. Felder, 1869)  
 Verh. zool.-bot. Ges. Wien. 19: 478-479, no. 38.  
**Original Combination:** *Helias pallida*  
**Type Locality:** "Jalapa, Portrero" [Veracruz, Mexico]  
**Types:** Syntype(s) in BMNH.  
 Recorded from Texas by A. Warren *et al.* (2003), News Lepid. Soc. 45(4):128-131, figs. 1-6.  
 = *ozotes* Butler, 1870  
 Trans. Entomol. Soc. Lond. (4)18(4): 515, no. 3.  
**Original Combination:** *Achlyodes Ozotes*  
**Type Locality:** "Venezuela" "Venezuela, Bogota, Bolivia"  
**Types:** Syntype(s) in BMNH.  
 = *selva* Evans, 1953  
 Cat. Am. Hesp. Brit. Mus. (3): 178.  
**Original Combination:** [*Achlyodes*] *selva*  
**Type Locality:** "Jalapa, Mexico" [Veracruz]  
**Types:** Holotype in BMNH.  
 Austin and A. Warren (2002), Dugesiana 9(2): 26, determined this synonymy.

Genus **Eantis** Boisduval, 1836

Spec. gén. Lépid. 1: pl. 13 [=9B], fig. 6. Type-species: *Urbanus thraso* Hübner, [1807], Samml. exot. Schmett. 1: pl. [151], figs. 1-4, by monotypy. A. Warren (1996), Phylog. Rev. Skippers *mithridates* Spec. Group: 188 pp. and (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 553, placed our species in *Eantis*.

104. *Eantis tamenund* (W. H. Edwards, 1871)  
 Trans. Am. Entomol. Soc. 3(3/4): 205, 215-216, no. 20.  
**Original Combination:** *Hesperia Tamenund*  
**Type Locality:** "near Waco, Texas"; suggested to be "probably close to Norse, Bosque County, Texas" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 615.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 617, fig. 8 ♂ D&V.

Tribe **Pyrgini** Burmeister, 1878

Genus **Carrhenes** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 388. Type-species: *Leucochitonea fuscescens* Mabille, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(16): lxii, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 81.

105. *Carrhenes canescens* (R. Felder, 1869)  
 a. *Carrhenes canescens canescens* (R. Felder, 1869)  
 Verh. zool.-bot. Ges. Wien 19: 476-477, no. 34.  
**Original Combination:** *Leucochitonea canescens*  
**Type Locality:** "Potrero" [Veracruz, Mexico]

**Types:** Type(s) may be in NMW.

Genus **Xenophanes** Godman & Salvin, 1895

Biol. centr.-amer., Lepid. Rhop. 2(121): 387. Type-species: *Papilio tryxus* Stoll, 1780, in: Uitl. Kapellen 4(28): 87, pl. 334, figs. G, H, by original designation.

106. **Xenophanes tryxus** (Stoll, 1780)  
 Uitl. Kapellen 4(28): 87, pl. 334, figs. G, H (as *tryxus*); (34): 252 (index, as *trixus*).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Tryxus*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.  
 = *salvianus* (Fabricius, 1793)  
 Entomol. Syst. 3(1): 348-349, no. 325; cited Jones' Icones 6: pl. 94, fig. 4 D&V.  
**Original Combination:** *H[esperia]. U[rbicola]. Salvianus*  
**Type Locality:** "in Indiis Dom. Jones"  
**Types:** Type(s) probably lost.  
 = *ruatanensis* Godman & Salvin, 1895  
 Biol. centr.-amer., Lepid. Rhop. 2(121): 388, no. 2.  
**Original Combination:** *Xenophanes ruatanensis*  
**Type Locality:** "Honduras, Ruatan I."  
**Types:** Syntypes in BMNH.  
 = *euphémie* (Ehrmann, 1907)  
 Can. Entomol. 39(9): 318.  
**Original Combination:** *Leucochitonea euphémie*  
**Type Locality:** "Suapure, Venezuela"  
**Types:** Holotype in CMNH.  
 = *perplexus* E. Bell, 1942  
 An. Esc. Nac. Cienc. Biol. Mex. 2(4): 456-457, no. 5, fig. 1 ♂ genitalia.  
**Original Combination:** *Xenophanes perplexus*  
**Type Locality:** "Guerrero" [Mexico]  
**Types:** Holotype in AMNH; the description erroneously stated that the holotype (#4772) is in ENCB.

Genus **Antigonus** Hübner, [1819]

Verz. bekannt. Schmett. (7): 108. Type-species: *Urbanus erosus* Hübner, [1812], Samml. exot. Schmett. 1: pl [153], figs. 1, 2, 3, 4, by monotypy.

- = *Chaetoneura* C. Felder & R. Felder, 1862  
 Wien. Entomol. Montaschr. 6(6): 185-186. Type-species: *Chaetocneme hippulus* C. Felder & R. Felder, 1862, Wien. Entomol. Montaschr. 6(6): 186, no. 172 (= *Hesperia nearchus* Latreille, [1813], in: Humboldt and Bonpland, Voy. Rég. Équinox., Part 2 (Observ. Zool.) 2(10): 135, pl. 43, figs. 3, 4; synonym), by original designation.  
 = *Systaspes* Weeks, 1901  
 Ill. diurn. Lepid. 1: 20, 29, 116. Type-species: *Antigonus corrosus* Mabille, 1878, Petites Nouv. Entomol. 2(188): 198, no. 23, by monotypy.
107. **Antigonus emorsa** (R. Felder, 1869)  
 Verh. zool.-bot. Ges. Wien 19: 479-480.  
**Original Combination:** *Leucochitonea emorsa*  
**Type Locality:** "von der Hauptstadt Mexico in der Nähe von Cuernavaca" [Morelos, Mexico]  
**Types:** Holotype probably in NMW.  
 Species-genus gender conformation is *emorsus*.  
 = *albimedia* (Draudt, 1922)  
 In: Seitz, Grossschmett. Erde 5(321): 904; (329): pl. 176f, fig. [7] ♂ D.  
**Original combination:** [*Systasea emorsa*] form *albimedia*  
**Type Locality:** "Mexiko"; lectotype from "Guerrero."  
**Types:** Lectotype (#L 4051) in SMF, designated by Mielke and Schroeder (1994), Senckenberg. biol. 73(1/2): 139, fig. 9, ♂ genitalia.
108. **Antigonus erosus** (Hübner, [1812])  
 Samml. exot. Schmett. 1: pl [153], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Urbanus Vetus Erosus*  
**Type Locality:** Not stated.  
**Types:** Types probably lost.  
 Recorded from Texas by Knudson *et al.* (2004), News Lepid. Soc. 46(4): 111, 113, 6 figs.  
 = *westermann* (Latreille, [1824])  
 Enc. méth., 9(Ins.) (2): (725), 791, no. 153.  
**Original Combination:** *Hesperia Westermann*  
**Type Locality:** "l'Amérique méridionale"



**Types:** Types may be in MNHP or BMNH.

Genus *Systasea* W. H. Edwards, 1877

Can. Entomol. 9(6): 120. Type-species: *Hesperia zampa* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 207-208, as replacement name for the genus *Lintneria* Auctorum. Because there was misunderstanding over the original description of *Lintneria*, this name was proposed to replace a "ghost." According to Code Article 67.8, the type-species of *Systasea* is *Papilio daunus* Cramer, 1777, Utitl. Kapellen 2(11): 44, pl. 126, fig. F (see *Thorybes bathyllus*); this issue needs to be addressed by the I.C.Z.N. in a petition to assign *Hesperia zampa* W. H. Edwards, 1876, as the type-species of *Systasea*. For now, traditional usage is maintained.

= ‡*Lintneria* W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 57. Type-species: *Hesperia zampa* W. H. Edwards, 1876, Trans. Am. Entomol. Soc. 5(3/4): 207-208, by monotypy. Preoccupied by *Lintneria* Butler, 1876, Trans. Zool. Soc. Lond. 9: 620.

= ‡*Plesiocera* Mabilie, 1891

Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi. Type-species: *Plesiocera filipalpis* Mabilie, 1891, Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi (= *Leucochitonea pulverulenta* R. Felder, 1869, Verh. zool.-bot. Ges. Wien 19: 478; synonym), by monotypy. Preoccupied by *Plesiocera* Macquart, 1841, Mém. Soc. R. Sci. Lille 1840: 360. The generic and specific diagnoses of *Plesiocera filipalpis* were based on the body of *S. pulverulenta* with a glued-on satyrine head.

109. *Systasea pulverulenta* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien. 19: 478, no. 37.

**Original Combination:** *Leucochitonea pulverulenta*

**Type Locality:** "Orizaba" [Veracruz, Mexico]

**Types:** Syntypes in NMW.

= *taeniatus* (Plötz, 1884)

Jb. Nassau. Ver. Naturk. 37: 41, no. 2; cited unpublished pl. 1068.

**Original Combination:** [*Tagiades*] *Taeniatus*

**Type Locality:** "Oaxaca" [Mexico]

**Types:** Type(s) may be in ZSMC.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 149, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *filipalpis* (Mabilie, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.)(17): cvi.

**Original Combination:** *Plesiocera filipalpis*

**Type Locality:** Not stated.

**Types:** Holotype in BMNH.

As noted above, the specific diagnosis was based on the body of this species with a glued-on satyrine head.

110. *Systasea zampa* (W. H. Edwards, 1876)

Trans. Am. Entomol. Soc. 5(3/4): 207-208.

**Original Combination:** *Hesperia Zampa*

**Type Locality:** "South Apache, Arizona"; corrected to "South [of Fort] Apache, Navajo County Arizona" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613; neotype from "Arizona."

**Types:** Neotype in CMNH, designated by L. Miller (1970), Ann. Carnegie Mus. 41(5): 183-184, figs. 4 ♂ D, 5 ♂ V, 6 ♂ genitalia; figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 614, fig. 7 ♂ D&V.

The misapplication of the name *zampa* was explained in the neotype designation, and by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 613-615.

= *evansi* (E. Bell, 1941)

Entomol. News 52(6): 165-167, fig. 2 ♂ genitalia.

**Original Combination:** *Antigonus evansi*

**Type Locality:** "Baboquivari Mountains, Arizona" [Pima County]

**Types:** Holotype in AMNH.

Genus *Celotes* Godman & Salvin, 1899

Biol. centr.-amer., Lepid. Rhop. 2(147): 452. Type-species: *Pholisora nessus* W. H. Edwards, 1877, Can. Entomol. 9(6): 192, by monotypy.

111. *Celotes nessus* (W. H. Edwards, 1877)

Can. Entomol. 9(10): 192.

**Original Combination:** *Pholisora nessus*

**Type Locality:** "San Antonio, Texas" [Bexar County]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 640, fig. 21 ♂ D&V.

= *notabilis* (Strecker, [1878])

Lepid. Rhop. Het. (14): 131.

**Original Combination:** *Spilothyris Notabilis*

**Type Locality:** Not specifically stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]

**Types:** Syntypes in FMNH.

= *radiatus* (Plötz, 1884)

Mitt. naturw. Ver. Neu-Vorpomm. 15: 23, no. 1, cited unpublished pl. 907.

**Original Combination:** [*Carcharodus*] *Radiatus*

**Type Locality:** "Texas"

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 147, determined this synonymy through an examination of the unpublished drawing made by Plötz.

112. ***Celotes limpia*** Burns, 1974

Psyche 81(1): 51-55, figs. 1E ♂ D, 1F ♂ V (holotype), 1G ♀ D, 1H ♀ V, 2B ♂ metathoracic pouch, 4 ♂ genitalia, 6 ♀ genitalia, 8 distribution map.

**Original Combination:** *Celotes limpia*

**Type Locality:** "Limpia Canyon, 5000 feet, Davis Mountains., 4 miles WNW of Fort Davis, Jeff Davis County, Texas"

**Types:** Holotype in MCZ.

Genus ***Pyrgus*** Hübner, [1819]

Verz. bekannt. Schmett. (7): 109. Type-species: *Papilio alveolus* Hübner, [1803], Samml. europ. Schmett. 1: pl. 92, figs. 466, 467 (= *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167; synonym), by designation of Westwood [1841], in: Brit. Butts. Transf. (ed. 1): 123. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 706. As a result of the erroneous type-species designation of *Hesperia* Fabricius, 1793, by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187-189, most of what is now known as *Pyrgus* was previously called *Hesperia*. The action of Plötz (1879), Stettiner Entomol. Ztg. 40(4-6): 179, of citing *malvae* as the type-species of *Carcharodus* Hübner, [1819], Verz. bekannt. Schmett. (7): 110, further confused the issue surrounding the identity of *Pyrgus*. The situation was explained by Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 94-95. *Carcharodus* does not occur in the Nearctic.

= ‡*Urbanus* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97. *Opinion* 278 placed *Urbanus* Hübner [1806] on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 86.

= *Syrictus* Boisduval, [1834]

Icon. Hist. Lépid. Europ. 1(23): 230. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by designation of Blanchard (1845), Hist. Ins. 2: 348.

= *Scelotrix* Rambur, 1858

Cat. Syst. Lépid. Andal.: 63. Type-species: *Papilio carthami* Hübner, [1813], Samml. europ. Schmett. 1: pl. 143, figs. 726 [actually 720], 723 [not figs. 721-722] (= *Papilio fritillarius* Poda, 1761, Ins. Mus. graec.: 79, no. 53, as defined by the specimen on pl. 10, fig. 7; synonym), by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 64.

= ‡*Bremeria* Tutt, [1906]

Nat. Hist. Brit. Butts. 1(10/11): 296. Type-species: *Syrictus bieti* Oberthür, 1886, Étud. Entomol. 11: 26, pl. 6, fig. 50, by designation of Lindsey (1921), Bull. Labs. Nat. Hist. St. Univ. Iowa 9(4): 37. Preoccupied by *Bremeria* Alpheraky, 1892, in: Romanoff, Mém. Lépid. 6: 7, and *Bremeria* Moore, 1896, Lepid. Ind. 3(25): 9.

= ‡*Teleomorpha* B. Warren, 1926

Trans. Entomol. Soc. Lond. 74(1): 18, 46, pl. 10, fig. 7. Type-species: *Papilio carthami* Hübner, [1813], Samml. europ. Schmett.: pl. Pap. 143, figs. 726 [actually 720] ♂, 723 ♂ [not figs. 721-722] (= *Papilio fritillarius* Poda, 1761, Ins. Mus. graec.: 79, as defined by the specimen on pl. 10, fig. 7), by designation of Hemming (1934), Stylops 3(6): 143. A junior objective synonym of *Scelotrix* Rambur, 1858.

= ‡*Hemitelemorpha* B. Warren, 1926

Trans. Entomol. Soc. Lond. 74(1): 19, 72. Type-species: *Papilio malvae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 485, no. 167, by designation of Hemming (1934), Stylops, 3(6): 143. A junior objective synonym of *Syrictus* Boisduval, [1834].

= *Atelemorpha* B. Warren, 1926

Trans. Entomol. Soc. Lond. 74(1): 19, 87. Type-species: *Hesperia onopordi* Rambur, [1842], Faune Entomol. Andal. 2(6): 319, pl. 8, fig. 13, by designation of Hemming (1934), Stylops 3(6): 143.

\*113. ***Pyrgus centaureae*** (Rambur, [1842])

Faune Entomol. Andal. 2(6): 315-316, pl. 8, fig. 10.

**Original Combination:** *Hesperia Centaureae*

**Type Locality:** "Dalécarlie" [Dalarna, Sweden]

**Types:** Type(s) may be in MNHP, BMNH, or lost.

de Jong (1972), Tijdschr. Entomol. 115(1): 27, included this species in the subgenus *Scelotrix*.

a. ***Pyrgus centaureae wyandot*** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[1]: 14, 21-22, no. 13; [2]: pl. 5, fig. 4 ♂ D&V.

**Original Combination:** *Hesperia Wyandot*

**Type Locality:** "Long Island...Washington, D. C."; neotype from "Long Island, New York."

**Types:** Neotype (possibly a lectotype) in FMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 632, fig. ♂ D&V.

W. Forbes (1960), Mem. Cornell Univ. Agric. Exper. Stat. 371(part 4): 67-68, Shapiro (1974), Search 4(3): 23, and other recent workers considered this a species-level taxon, a status that Lindsey (1928), Entomol. News 39: 239-242, disputed. More research is needed; see Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 8-9.

b. ***Pyrgus centaureae freija*** (B. Warren, 1924)

Trans. Entomol. Soc. Lond. 72(Proc.): lv-lvii, pl. B, figs. 1 ♂ D, 2 ♀ V (lectotype), 3 ♂ D, 4 ♀ V, 5 ♂ V.



**Original Combination:** *Hesperia freija*

**Type Locality:** "Colorado at an altitude of 13,000 ft.; Labrador and other parts of N. America; and in the extreme North of Europe"; lectotype from "Labrador." [Newfoundland and Labrador]

**Types:** Lectotype in MHNG (Reverdin collection), designated by B. Warren (1951), Entomol. 84(10)[1061]: 217 (per E. Bell (1926), Entomol. News 37(4): 109-110); figured by B. Warren (1926), Trans. Entomol. Soc. Lond. 74(1): pl. 14, figs. 3 ♂ D, 4 ♂ V, pl. 15, fig. 2 ♂ genitalia.

This taxon was further discussed by B. Warren (1935), Trans. R. Entomol. Soc. Lond. 83(1): 127-129, pl. 7, W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 67-68, and de Jong (1972), Tijdschr. Entomol. 115(1): 57.

= *♂"fasciata"* (B. Warren, 1926)

Trans. Entomol. Soc. Lond. 74(1): 51.

**Original Combination:** [*Hesperia freija*] ab. *fasciata*

**Type Locality:** Not stated.

**Types:** Syntype in BMNH.

*♂"reducta"* Evans, 1942

Revta. Entomol. (Rio de Janeiro) 13(3): 364.

**Original Combination:** *Pyrgus reducta*

This name was listed as a synonym of *Pyrgus centaureae* without a description or indication; a *nomen nudum*.

c. ***Pyrgus centaureae loki*** Evans, 1953

Cat. Am. Hesp. Brit. Mus. (3): 214.

**Original Combination:** [*Pyrgus centaureae*] *loki*

**Type Locality:** "Long [*sic!*] Peak Trail, Colorado: above timberline" [Long's Peak, Larimer County]

**Types:** Holotype in BMNH.

114. ***Pyrgus ruralis*** (Boisduval, 1852)

a. ***Pyrgus ruralis ruralis*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10: 311-312, no. 68; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, fig. 1212 ♀ D&V (lectotype).

**Original Combination:** *Syrichthus ruralis*

**Type Locality:** "Californie" implied from the title of the paper; defined as "Tuolumne Co., Calif." by Scott (1981), Papilio (n.s.) 1: 7; corrected to "Hwy. 70 at Murphy Creek, 2.5 road miles SW of Belden, North Fork Feather River Canyon, 1800' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, figs. 123 ♀ D, 124 ♀ V.

= *caespitatis* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 312, no. 69; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, figs. 1204 ♂ D&V (lectotype), 1205 ♂ D&V.

**Original Combination:** *Syrichthus caespitatis*

**Type Locality:** "Californie" implied from the title of the paper; defined as "Marin Co., Calif." by Scott (1981), Papilio (n.s.) 1: 7; corrected to "Hwy. 70 at Murphy Creek, 2.5 road miles SW of Belden, North Fork Feather River Canyon, 1800' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, figs. 126 ♂ D, 127 ♂ V.

= *ricara* (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201, 203, no. 6, pl. 1, fig. 2 ♂ D&V.

**Original Combination:** *Hesperia Ricara*

**Type Locality:** "Empire City, Colorado Territory"; defined as "vicinity of the former site of Empire City, Clear Creek County, Colorado" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626-628, fig. 15 ♂ D&V.

= *petreius* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 195, no. 12.

**Original Combination:** *Syrichthus Petreius*

**Type Locality:** "Nevada"; defined as "Little Valley, Washoe County, Nevada" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 628, 630; neotype from "Neva."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 630, fig. 16 ♂ D&V.

b. ***Pyrgus ruralis lagunae*** Scott, 1981

Papilio (n.s.) 1: 7.

**Original Combination:** *Pyrgus ruralis lagunae*

**Type Locality:** "N. end, E Laguna...Laguna Mts., San Diego Co., Calif."

**Types:** Holotype in LACM; possibly figured by Scott (1975), J. Lepid. Soc. 29(4): fig. 3 ♂ D.

115. ***Pyrgus xanthus*** W. H. Edwards, 1878

Field & Forest 3(9): 142-143.

**Original Combination:** *Pyrgus Xanthus*

**Type Locality:** "Southern Colorado"; defined as "Rosita, Custer County, Colorado" by Scott (1975), J. Lepid. Soc. 29(4): 217.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 626, fig. 14 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 47, fig. 15 ♂ D.

= *macdunnoughi* (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 86, pl. 264, fig. 2205 ♂ D&V.

**Original Combination:** [*Syrichthus*] *Mac Dunnoughi*



**Type Locality:** "Arizona"

**Types:** Holotype in BMNH.

116. ***Pyrgus scriptura*** (Boisduval, 1852)

a. ***Pyrgus scriptura scriptura*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 312, no. 70; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, fig. 1206 ♂ D&V (holotype).

**Original Combination:** *Syrichthus scriptura*

**Type Locality:** "Californie" implied from the title of paper; further refined as "Dans les lieux arides" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 23, no. 71; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20.

**Types:** Holotype in BMNH, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, figs. 129 ♂ D, 130 ♂ V.

‡"pseudoxanthus" Scott, 1986

Butts. N. Am.: 495, no. 664.

**Original Combination:** [*Pyrgus scriptura*] form *pseudoxanthus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. ***Pyrgus scriptura apertorum*** Austin, 1998

Syst. W. N. Am. Butts. (43): 524, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Pyrgus scriptura apertorum*

**Type Locality:** "Nevada: Clark County; Spring Mountains, Cottonwood Pass Road, 0.6 road miles south of Nevada State Route 160 (Pahrump Road) to Cottonwood Pass, 1340 m, T23S R58E S2, 11, 14 and T22S R58E S35 on USGS Goodsprings, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

117. ***Pyrgus communis*** (Grote, 1872)

The species-level arrangement presented by Burns (2000), J. Lepid. Soc. 54(2): 52-71, is accepted here, but the synonymy remains tentative and is clearly in need of review.

a. ***Pyrgus communis communis*** (Grote, 1872)

Can. Entomol. 4(4): 69-70.

**Original Combination:** [*Hesperia*] *Syrichthus communis*

**Type Locality:** "central Alabama"; suggested to be "vicinity of Demopolis" by Burns (2000), J. Lepid. Soc. 54(2): 62. [Marengo County]

**Types:** Syntype (#7170) in ANSP.

= ‡*tessellata* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 73-74, no. 2.

**Original Combination:** *H[esperia]. tessellata*

**Type Locality:** "Pennsylvania, Maryland, Iowa, Florida, Alabama, Texas, Missouri and California"; defined as "Pennsylvania" by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 219; syntypes from "Dallas, Tex...California."

**Types:** Syntypes (#15823) in MCZ.

Preoccupied by *Hesperia tessellata* Hewitson, [1866], Trans. Entomol. Soc. Lond. (3)2(6): 494.

= *insolatrix* Plötz, 1884

Mitt. naturw. Ver. Neu-Vorpomm. 15: 4, no. 7; cited unpublished pl. 887.

**Original Combination:** [*Pyrgus* (*Pyrgus*)] *Insolatrix*

**Type Locality:** "Mexico"

**Types:** Type(s) may be in ZSMC.

= *varus* Plötz, 1884

Mitt. naturw. Ver. Neu-Vorpomm. 15: 20, no. 53, cited unpublished pl. 900.

**Original Combination:** [*Pyrgus* (*Syrichthus*)] *Varus*

**Type Locality:** "Mexico"

**Types:** Type(s) may be in ZSMC.

= ‡"skinneri" (Gunder, 1927)

Entomol. News 38(2): 51, fig. 2 ♂ D&V ("holotype").

**Original Combination:** *Urbanus communis* ab. *skinneri*

**Type Locality:** "Los Angeles, Los Angeles County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 62, fig. 7 ♀ D.

‡"albovittata" (Grote, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(3): 168.

**Original Combination:** *Hesperia albovittata*

**Type Locality:** "südlichen Theile von Alabama"

Grote referred to specimens in ZMHB under a manuscript name, in an unpublished communication with Zeller; a *nomen nudum*.

118. ***Pyrgus albescens*** Plötz, 1884

Mitt. naturw. Ver. Neu-Vorpomm. 15: 4, no. 5, cited unpublished pl. 889.

**Original Combination:** [*Pyrgus* (*Pyrgus*)] *Albescens*

**Type Locality:** "Mexico"

**Types:** Type(s) may be in ZSMC.

This taxon has been considered a subspecies or form of *P. communis* by various authors (*e.g.*, Lindsey *et al.* (1931), Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): 46, Tilden (1965), J. Lepid. Soc. 19(2): 91-94, Austin (1981), J. Res. Lepid. 19(4): 242, and (1986), J. Lepid. Soc. 40(1): 55-58), but Burns (2000), J. Lepid. Soc. 54(2): 52-71, and Calhoun (2002), J. Lepid. Soc. 56(2): 98-103,

corroborated its species-level status.

= *occidentalis* Skinner, 1906

Entomol. News 17(3): 96; figured by Skinner (1906), Entomol. News 17(8): pl. 12, middle row left ♂ & ♀ D, middle row right ♂ & ♀ V.

**Original Combination:** *Pyrgus occidentalis*

**Type Locality:** "San Bernardino Ranch, Cochise County, Arizona ...and Brownsville, Texas"; syntype labels read "San Antonio, Texas" and "Alamagordo, N. M."

**Types:** Syntype (#7108) in ANSP.

119. **Pyrgus philetas** W. H. Edwards, 1881

Papilio 1(4): 43, 46-47, no. 4.

**Original Combination:** *Pyrgus philetas*

**Type Locality:** "Western Texas"; defined as "Archer County" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 623.

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 50, fig. 24 ♀ [not ♂] D, and F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 623, fig. 13 ♀ D&V.

Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 222, considered this taxon a subspecies of *P. oileus*. Burns and R. Kendall (1969), Psyche 76(1): 42-43, demonstrated that *P. philetas* and *P. oileus* are distinct species.

120. **Pyrgus oileus** (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 795-796, no. 269.

**Original Combination:** *P[apilio]. P[lebejus Urbicola]. Oileus*

**Type Locality:** "Algiriae, Brunnichie" [Algeria]; suggested to be "Mexico or the U.S.A." by Evans (1953), Cat. Am. Hesp. Brit. Mus. (3): 221.

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 356.

This name was resurrected by Evans (1953), *ibid.*, to replace *syrichtus*, a name previously in wide use.

= *syrichtus* (Fabricius, 1775)

Syst. Entomol.: 534, no. 394.

**Original Combination:** *P[apilio]. P[lebejus] U[rbicola] Syrichtus*

**Type Locality:** "America"; Fabricius (1793), Entomol. Syst 3(1): 349, no. 326, listed "in America meridionali."

**Types:** Syntypes in ZMUC.

Fabricius (1793), Entomol. Syst. 3(1): 349, no. 326, cited *Papilio oileus* Linnaeus, 1767, which is further justification for this synonymy.

= *montivagus* Reakirt, [1867]

Proc. Acad. Nat. Sci. Philad. 18(4): 334, no. 33.

**Original Combination:** *Pyrgus montivagus*

**Type Locality:** "Rocky Mountains, Colorado Territory...Mexico, near Vera Cruz"

**Types:** Type(s) may be in FMNH.

= *adjutrix* Plötz, 1884

Mitt. naturw. Ver. Neu-Vorpomm. 15: 15, no. 38, cited unpublished pl. 882.

**Original Combination:** [*Pyrgus (Scelothrix)*] *Adjutrix*

**Type Locality:** "Mexico"

**Types:** Type(s) may be in ZSMC.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 147, determined that this is "= *Hesperia montivaga*, Reak." through an examination of the unpublished drawing made by Plötz.

= *fumosa* (Reverdin, 1919)

Bull. Soc. Lépid. Genève 4(2): 106, pl. 4, fig. 2 ♀ D&V.

**Original Combination:** [*Hesperia syrichtus*] var. (ab.?) *fumosa*

**Type Locality:** "Mexique (Vera Cruz); Arizona; Florida (Key West); Jamaica; Cuba; Porto-Rico; Brésil (Chapada); Cuba (Guantanamo)"

**Types:** Location of type(s) not known, probably in MHNG (Reverdin collection).

#### Genus *Heliopyrgus* Herrera, 1957

In: Herrera *et al.*, Revta. chil. Entomol. 5: 154. Type-species: *Syrichtus americanus* Blanchard, 1852, in: Gay, Hist. fis. pol. Chile 7: 44, no. 2, pl. 3, fig. 10, by original designation. Austin and A. Warren (2001), Dugesiana 8(1): 4, resurrected this genus.

121. **Heliopyrgus domicella** (Erichson, [1849])

a. **Heliopyrgus domicella domicella** (Erichson, [1849])

In: Schomburgk, Reisen Brit.-Guiana 3: 604.

**Original Combination:** *S[yrichtus]. Domicella*

**Type Locality:** "British Guiana" implied from the title of the work. [Guyana]

**Types:** Location of type(s) not known (ZMHB?).

= *nearchus* (W. H. Edwards, 1882)

Papilio 2(2): 26-27.

**Original Combination:** *Pyrgus Nearchus*

**Type Locality:** "southern Arizona"; suggested to be "vicinity of Tucson" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 637. [Pima County]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 639, fig. 20

♂ D&V.

= *aconita* (Plötz, 1884)

Mitt. naturw. Ver. Neu-Vorpomm. 15: 3, no. 1.

**Original Combination:** [*Pyrgus* (*Pyrgus*)] *Aconita*

**Type Locality:** "Georgia", in error.

**Types:** Type(s) may be in ZSMC.

122. ***Heliopyrgus sublinea*** (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 434.

**Original Combination:** *Heliopetes sublinea*

**Type Locality:** "Orizaba, Paso de San Juan, Mexico" [Veracruz]

**Types:** Holotype (#5992) in USNM.

Recorded from Texas by Basham *et al.* (2005), News Lepid. Soc. 47(1): 9-10, 6 figs.

Genus ***Heliopetes*** Billberg, 1820

Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio niveus* Cramer, 1775, Uitl. Kapellen 1(2): 33, pl. 22, fig. C; (8): 154 (index) (= *Papilio arsalte* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 67; synonym), by monotypy.

= *Leucoscirtes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 73. Type-species: *Syrictus ericetorum* Boisduval, 1852, Anns. Soc. Entomol. Fr. (2)10: 313, no. 71, by original designation.

123. ***Heliopetes ericetorum*** (Boisduval, 1852)

Anns. Soc. Entomol. Fr. (2)10(2): 313, no. 71; figured by Oberthür (1912), Étud. Lépid. Comp. 6: pl. 137, fig. 1210 ♂ D&V (lectotype).

**Original Combination:** *Syrictus ericetorum*

**Type Locality:** "Californie" implied from the title of the paper; defined as "vicinity of Sawmill Peak at Griffin Gulch, rim of West Branch Feather River, 2 air miles E. of Magalia, Butte County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, figs. 132 ♂ D, 133 ♂ V.

= *alba* (W. H. Edwards, 1866)

Proc. Entomol. Soc. Philad. 6(2): 200, 206, no. 6.

**Original Combination:** *Syrictus Alba*

**Type Locality:** "Arizona"; defined as "vicinity of Fort Whipple" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 635. [Yavapai County]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 637, fig. 19 ♂ D&V.

124. ***Heliopetes macaira*** (Reakirt, [1867])

a. ***Heliopetes macaira macaira*** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 334-335, no. 34.

**Original Combination:** *Pyrgus macaira*

**Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]

**Types:** A syntype in FMNH.

= *‡nivea* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 73-74, no. 2.

**Original Combination:** *L[euco]scirtes*. *nivea*

**Type Locality:** "Tehuantepec" [Oaxaca, Mexico]

**Types:** Syntypes (#15321) in MCZ.

Secondarily preoccupied by *Papilio niveus* Cramer, 1775, Uitl. Kapellen 1(2): 33, pl. 22, fig. C ♂ D; (8): 154 (index).

= *locutia* (Hewitson, 1875)

Ill. exot. Butts. 5: [112], pl. Leucochitonea II [58], figs. 19 D, 20 V.

**Original Combination:** *Leucochitonea Locutia*

**Type Locality:** "Taboga Isl., Panama"

**Types:** Holotype in BMNH.

= *cnemus* Godman & Salvin, 1897

Biol. centr.-amer., Lepid. Rhop. 2(137): 448-449, no. 8; 3(138): pl. 90, figs. 25 ♀ D, 26 ♀ V.

**Original Combination:** *Heliopetes cnemus*

**Type Locality:** "Mexico, Lake Chapala...Dos Arroyos, Venta de Zopilote, Acapulco in Guerrero, Atoyac in Vera Cruz"

**Types:** Holotype in BMNH.

*‡eulalia* (Plötz, 1885)

Stettiner Entomol. Ztg. 46(1-3): 39, no. 9.

**Original Combination:** [*Leucochitonea*] *Locutia* [synonym] *Eulalia*

This name was listed in synonymy without a description or indication; a *nomen nudum*.

125. ***Heliopetes laviana*** (Hewitson, 1868)

a. ***Heliopetes laviana laviana*** (Hewitson, 1868)

Descr. One Hundred new Spec. Hesp. (2): 48-49, no. 8; figured by Hewitson (1875), Ill. exot. Butts. 5(95): pl. Leucochitonea II [58], figs. 15 D, 16 V.

**Original Combination:** *Leucochitonea Laviana*

**Type Locality:** "Nicaragua"



**Types:** Holotype in BMNH.

= *pastor* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 476, no. 33.

**Original Combination:** *Leucochitonea Pastor*

**Type Locality:** "Lerma" [Mexico State, Mexico]; syntypes from "Lerma, Mexico, 1 male from Ypanema (S. Paulo, Brasilien)."

**Types:** Syntypes in NMW.

= *oceanus* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 213-214, no. 16.

**Original Combination:** *Syrictus Oceanus*

**Type Locality:** "Arizona"; suggested to be "vicinity of Guaymas, Sonora, Mexico" by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 634.

**Types:** Holotype in CMNH, figured by F. Brown and L. Miller (1975), Trans. Am. Entomol. Soc. 101(4): 634, fig. 18 ♂ D&V.

= *dividua* Röber, 1925

Entomol. Mitt. 14(1): 99.

**Original Combination:** *Heliopetes dividua*

**Type Locality:** "Wes-Kolumbien (Rio Magdalena)"

**Types:** Holotype in MTD.

126. **Heliopetes arsalte** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 469, no. 67; referred to specimens in Museum Ludovicae Ulrica; figured by Clerck [1764], Icon. Ins. 2: pl. 23, fig. 2 ♂ D&V.

**Original Combination:** *P[apilio]. D[anaus candidus] Arsalte*

**Type Locality:** "in Indiis"; suggested to be "South America, probably the Guianas" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 301.

**Types:** Type(s) apparently lost.

= *menalcas* (Fabricius, 1775)

Syst. Entomol.: 535, no. 397.

**Original Combination:** *P[apilio]. P[lebejus] U[rbicola] Menalcas*

**Type Locality:** "Indiis"

**Types:** Syntype in ZMUC.

Preoccupied by *Papilio menalcas* Poda, 1761, Ins. Mus. graec. 78.

= *niveus* (Cramer, 1775)

Uitl. Kapellen 1(2): 33, pl. 22, fig. C ♂ D; (8): 154 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Niveus*

**Type Locality:** "Surinamische" "Surinam"

**Types:** Type(s) probably lost.

= *crameri* Billberg, 1820

Enum. Ins. Mus. Billb.: 81.

**Original Combination:** *Heliopetes Crameri*

**Type Locality:** "Surin" [Surinam]

**Types:** Type(s) probably lost.

Proposed as a replacement name for *Papilio niveus* Cramer, 1775, erroneously thought preoccupied; a junior objective synonym of *Papilio niveus*.

= *figara* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4) 18(4): 510, no. 3.

**Original Combination:** *Pyrgus Figara*

**Type Locality:** Not stated.

**Types:** Holotype in BMNH.

Subfamily **Heteropterinae** Aurivillius, 1925 (1879)

In: Seitz, Grossschmett. Erde 13(366): 506; (368): 546 (as "Heteropterini"). Type-genus: *Heteropterus* Duméril, 1806, Zool. analytique: 271. Verity (1940), Farfalle diurne Ital. 1: 86, replaced Cyclopidinae Speyer, 1879, Stettiner Entomol. Ztg. 40(10-12): 483, 486, with this name. Code Article 40.2 provides that such action taken before 1961, and becoming widely accepted (as it has), is valid.

Genus **Carterocephalus** Lederer, 1853

Verh. zool.-bot. Ges. Wien 2: 26. Type-species: *Papilio paniscus* Fabricius, 1775, Syst. Entomol.: 531, no. 377 (= *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 134, no. 217. The history of this name, and the confusion surrounding it, was summarized by Hemming (1967), Bull. Br. Mus. (Nat. Hist.) Entomol. Suppl. 9: 96-97.

= *Aubertia* Oberthür, 1896

Étud. Entomol. 20: 40. Type-species: *Aubertia dulcis* Oberthür, 1896, Étud. Entomol. 20: 40, pl. 9, fig. 16 (= *Carterocephalus christophi* Grun-Grschmañlo, 1891, Horae Soc. Entomol. Ross. 25(3/4): 460, no. 44; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 79.

= *Pamphilida* Lindsey, 1925

Ann. Entomol. Soc. Am. 18(1): 95. Type-species: *Papilio palaemon* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63, by original designation.

\*127. **Carterocephalus palaemon** (Pallas, 1771)

Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 63.

**Original Combination:** *Papilio Palaemon* (*Plebeius urbicola*)

**Type Locality:** Not stated; mentioned in the body of the text (p. 182) from "Bach Achtuschka" near "Nowodewitschie." [Novodevitschia, Kuybyshevskaya Oblast, Russia]

**Types:** Location of type(s) not known, probably lost.

Most of the Palaearctic synonymy is not listed below.

= *brontes* ([Schiffermüller], 1775)

Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160.

**Original Combination:** *Papilio Brontes*

**Type Locality:** "Wienergegend" implied from the title of the work. [Vienna, Austria]

**Types:** Location of type(s) unknown, probably lost.

= *paniscus* (Fabricius, 1775)

Syst. Entomol.: 531, no. 377.

**Original Combination:** *P[apilio]. P[lebeius]. U[rbicola] Paniscus*

**Type Locality:** "Lipsiae" [Leipzig, Germany]

**Types:** One syntype in ZMUC.

a. **Carterocephalus palaemon mesapano** (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 383-384, no. 94; figured by Scudder (1889), Butts. E. U. S. & Can. 3(12): pl. 10, fig. 2 ♂ D&V.

**Original Combination:** *Hesperia Mesapano*

**Type Locality:** "Norway, Me." [Oxford County, Maine]

**Types:** Syntype (#15306) in MCZ.

b. **Carterocephalus palaemon mandan** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 20-21, no. 11; (4): pl. 5, fig. 1 ♂ D&V.

**Original Combination:** *Hesperia Mandan*

**Type Locality:** "Lake Winnipeg"; neotype from "Pine Ridge, Manitoba, Canada."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 262, fig. ♂ D&V.

c. **Carterocephalus palaemon skada** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 196, no. 13.

**Original Combination:** *Cyclopides Skada*

**Type Locality:** "Kodiak" [Alaska]

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 263-264, fig. 2 ♂ D&V.

W. H. Edwards (1870) redescribed *Steroptes skada* in Trans. Am. Entomol. Soc. 3(2): 205, 214, no. 17. The "holotype" of the second described *skada* was made the neotype of the first to prevent confusion. W. Forbes (1960), Mem. Cornell Univ. Agric. Exp. Sta. 371 (part 4): 75, believed that this taxon is the same as *albiguttata* Christoph, 1893, Dtsche. Entomol. Z. "Iris" 6(1): 87-88, from "Vilui, Irkut, Guberli, Ural merid."

= *mackenziei* Wyatt, 1965

Z. wien. entomol. Ges. 50[76](5): 70-71, pl. 8, figs. 1 ♂ D, 1a ♂ V, 2 ♀ D, 2a ♀ V.

**Original Combination:** *Carterocephalus palaemon mackenziei*

**Type Locality:** "Norman Wells, N.W.T., Canada" [District of Mackenzie, Northwest Territories]

**Types:** Holotype in LNKD.

d. **Carterocephalus palaemon magnus** Mattoon & Tilden, 1998

Syst. W. N. Am. Butts. (51): 641-642, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Carterocephalus palaemon magnus*

**Type Locality:** "California: Sonoma County; Kruse Ranch Road at Plantation, ca. 3 air miles east Highway 1, at Pacific Ocean, or 1 road mile West of junction Seaview Road and Hauser Bridge Road"

**Types:** Holotype in LACM.

Genus **Piruna** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 10, 11. Type-species: *Pholisora pirus* W. H. Edwards, 1878, Field & Forest 3(7/8): 119, by original designation.

128. **Piruna pirus** (W. H. Edwards, 1878)

Field & Forest 3(7/8): 119.

**Original Combination:** *Pholisora Pirus*

**Type Locality:** "Southern Colorado"; suggested to be "Hardscrabble Canyon, Custer County, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 264, 265.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 265, fig. 3 ♂ D&V.

This taxon was redescribed by W. H. Edwards (1881), Trans. Am. Entomol. Soc. 9(1): 7.

= *semicaeca* (Mabille & Boulet, 1917)

Bull. Soc. Entomol. Fr. 1917(4): 100.

- Original Combination:** *Pholisora Pirus* var. *semicaeca*  
**Type Locality:** "Utah, U. S."  
**Types:** Holotype in MNHP.
129. **Piruna haferniki** H. Freeman, 1970  
 J. Lepid. Soc. 24(4): 247-248, figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♂ genitalia.  
**Original Combination:** *Piruna haferniki*  
**Type Locality:** "Green Gulch, Big Bend National Park, Brewster County, Texas, elev. 5700 ft."  
**Types:** Holotype in AMNH.
130. **Piruna polingii** (W. Barnes, 1900)  
 Can. Entomol. 32(2): 42, 44.  
**Original Combination:** *Pyrgus Polingii*  
**Type Locality:** "Huachuca Mountains, Arizona" [Cochise County]  
**Types:** Syntypes in USNM; a paratype figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 19 ♂ D.
- \*131. **Piruna aea** (Dyar, 1912)  
 Proc. U. S. Nat. Mus. 42(1885): 44.  
**Original Combination:** *Butleria aea*  
**Type Locality:** "Sierra de Guerrero, Mexico...Oaxaca, Mexico"  
**Types:** Syntypes (#14276) in USNM.  
 = *cingo* Evans, 1955  
 Cat. Am. Hesp. Brit. Mus. (4): 14, pl. 54 ♂ genitalia.  
**Original Combination:** [*Piruna*] *cingo*  
**Type Locality:** "Chilpancingo, Guerrero, 4600 feet"  
**Types:** Holotype in BMNH.  
 = *sombra* Evans, 1955  
 Cat. Am. Hesp. Brit. Mus. (4): 14, pl. 54 ♂ genitalia.  
**Original Combination:** [*Piruna cingo*] *sombra*  
**Type Locality:** "Guatemala"  
**Types:** Holotype in BMNH.
- a. **Piruna aea mexicana** H. Freeman, 1979  
 Bull. Allyn Mus. (52): 5-6, figs. 12 ♂ D, 13 ♂ V (holotype), 25 ♂ genitalia.  
**Original Combination:** *Piruna mexicana*  
**Type Locality:** "9 miles east of Queretaro, Queretaro, Mexico"  
**Types:** Holotype in MGCL.  
 Scott (1986), Butts. N. Am.: 426, no. 434, and Bailowitz and Brock (1991), Butts. SE Ariz.: 71, considered this taxon a synonym of *Piruna cingo*. A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 555, proposed this arrangement.
132. **Piruna penaea** (Dyar, 1918)  
 Proc. U. S. Nat. Mus. 54(2239): 338.  
**Original Combination:** *Butleria penaea*  
**Type Locality:** "Sierra de Guerrero, Mexico"  
**Types:** Holotype (#21210) in USNM.  
 Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 8, applied this name to the skipper previously reported from Texas as *Piruna microsticta* (Godman, 1900), in: Godman and Salvin, Biol. centr-amer., Lep. Rhop. 2(156): 464, no. 1; 3: pl. 92, figs. 1 ♂ (not ♀) D, 2 ♂ (not ♀) V, 3 ♂ D.  
 = *milpa* H. Freeman, 1970  
 J. N. Y. Entomol. Soc. 78(2): 96, figs. 11 ♂ D, 12 ♂ V (holotype), fig. 22 ♂ genitalia.  
**Original Combination:** *Piruna milpa*  
**Type Locality:** "Milpillas, Guerrero, Mexico"  
**Types:** Holotype in AMNH.

Subfamily **Hesperinae** Latreille, 1809

Tribe **Megathymini** J. H. Comstock & A. Comstock, 1895

Man. Study Ins.: 365 (as "Megathymidae"). Type-genus: *Megathymus* Scudder, 1872, 4th Ann. Rep. Peabody Acad. Sci. (1871): 83. I.C.Z.N. *Opinion* 483 placed Megathymidae on the *Official List of Family-Group Names in Zoology* as name no. 192; the same *Opinion* placed *Megathymus* on the *Official List of Generic Names in Zoology* as name no. 1222. The arrangement of Roever (1975), in: Howe, Butts. N. Am.: 411-422, is generally followed below.

Genus **Agathymus** H. Freeman, 1959

Lepid. News 12(3/4): 82-83. Type-species: *Megathymus neuoeogeni* W. H. Edwards, 1882, Papilio 2(2): 27-28, by original designation.

133. **Agathymus neuoeogeni** (W. H. Edwards, 1882)  
 a. **Agathymus neuoeogeni neuoeogeni** (W. H. Edwards, 1882)  
 Papilio 2(2): 27-28.  
**Original Combination:** *Megathymus Neuoeogeni*



- Type Locality:** “southern Arizona”; defined as “About ten miles from Prescott, Ariz.” by Ottolengui (1895), Entomol. News 6(7): 218, and “Prescott, Arizona” by D. Stallings and Turner (1954), Lepid. News 8(3/4): 79; corrected to “approx. 9 mi S. Prescott, Ariz.” by H. Freeman (1963), J. Res. Lepid. 2(2): 139; stated as “Prescott, Yavapai County, Arizona” by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 63-64.
- Types:** Lectotype (#3368) in USNM, designated by D. Stallings and Turner (1954), Lepid. News 8(3/4): 79, pl. 2, top row ♂ D&V; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 63, fig. 26 ♂ D&V.
- I.C.Z.N. *Opinion* 483 placed this name on the *Official List of Specific Names in Zoology* as name no. 1386.
- b. ***Agathymus neumoegeni judithae*** (D. Stallings & Turner, 1957)  
Entomol. News 68(1): 5-6, pl. 4, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.  
**Original Combination:** *Megathymus judithae*  
**Type Locality:** “Hueco Mts., Hueco, Texas, el. 5300 ft.”; defined as “Approximately 8 miles east of Hueco, in the Hueco Mountains, El Paso Co., Texas” by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 36.  
**Types:** Holotype in PMNH.
- c. ***Agathymus neumoegeni diabloensis*** H. Freeman, 1962  
Am. Mus. Novit. (2097): 1-5, figs. 1, 2 ♂ D&V, 3, 4 ♀ D&V (holotype).  
**Original Combination:** *Agathymus diabloensis*  
**Type Locality:** “5 miles west of Victoria Canyon, Diablo Mountains, Hudspeth County, Texas”  
**Types:** Holotype in AMNH.
- d. ***Agathymus neumoegeni carlsbadensis*** (D. Stallings & Turner, 1957)  
Entomol. News 68(1): 8-10, pl. 3, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.  
**Original Combination:** *Megathymus carlsbadensis*  
**Type Locality:** “Guadeloupe Mts., Carlsbad Cavern National Park, New Mexico, on the mesa at head of Yucca Canyon, el. 5470 ft.” [Eddy County]  
**Types:** Holotype in PMNH.
- e. ***Agathymus neumoegeni florenceae*** (D. Stallings & Turner, 1957)  
Entomol. News 68(1): 12-13, pl. 4, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row genitalia of both sexes.  
**Original Combination:** *Megathymus florenceae*  
**Type Locality:** “Davis Mts., Ft. Davis, Texas, el. 6200 ft.”; defined as “Davis Mountains, Scenic Drive, Jeff Davis Co., Texas” by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 35.  
**Types:** Holotype in PMNH.
- f. ***Agathymus neumoegeni mcalpinei*** (H. Freeman, 1955)  
Am. Mus. Novit. (1711): 6, figs. 15 ♂ D, 16 ♂ V (holotype), 17 ♀ D, 18 ♀ V, 30 ♂ genitalia, 31 ♀ genitalia.  
**Original Combination:** *Megathymus mcalpinei*  
**Type Locality:** “5.1 miles north of Marathon, Texas” [Brewster County]  
**Types:** Holotype in AMNH.  
This was spelled “macalpinei” by dos Passos (1964), Mem. Lepid. Soc. (1): 1, no. 5; an unjustified emendation.
- g. ***Agathymus neumoegeni chisosensis*** (H. Freeman, 1952)  
Am. Mus. Novit. (1593): 1-3, figs. 1 ♂ D, 2 ♂ V (holotype), 3 ♀ D, 4 ♀ V, 8 ♂ genitalia, 13 ♀ genitalia.  
**Original Combination:** *Megathymus chisosensis*  
**Type Locality:** “Chisos Basin, Chisos Mountains, Texas”; defined as “Chisos Mountains, el. 5400 ft., Brewster Co., Texas” by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 37.  
**Types:** Holotype in AMNH.  
The chromosome numbers for various members of this complex are discordant. H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 36-38, recorded a chromosome number of 10 for *florenceae* and *mcalpinei*, and 18 for *chisosensis*. Ferris (1989), Mem. Lepid. Soc. (3): 13, cited this as justification for considering *chisosensis* a distinct species. The species-level status of *chisosensis* needs further investigation.
134. ***Agathymus polingi*** (Skinner, 1905)  
Entomol. News 16(7): 232.  
**Original Combination:** *Megathymus polingi*  
**Type Locality:** “So. Arizona...Baboquivari Mountains, Pima County”; defined as “Baboquivari Mountains, Pima Co., Arizona” by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 53.  
**Types:** Syntype (#7059) in ANSP; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 31 ♂ D.
135. ***Agathymus evansi*** (H. Freeman, 1950)  
Field & Lab. 18(1): 144-145.  
**Original Combination:** *Megathymus evansi*  
**Type Locality:** “Ramsey Canyon, Cochise County, Arizona” [Huachuca Mtns.]  
**Types:** Holotype in AMNH; figured by Stallings and Turner (1954), Lepid. News 8(3/4): pl. 2, 3rd row ♂ D&V, and H. Freeman (1955), Am. Mus. Novit. (1711): figs. 11 ♂ D, 12 ♂ V.
136. ***Agathymus aryxna*** (Dyar, 1905)  
J. N. Y. Entomol. Soc. 13(3): 141.  
**Original Combination:** *M[egathymus]. aryxna*  
**Type Locality:** Not specifically stated, cited *Megathymus neumoegeni* (*sensu* H. Druce (1897), Biol. centr.-amer. Lepid. Het. 3(133): pl. 69, figs. 3 ♂ D, 4 ♀ D, from “Mexico...Northern Sonora”); defined as “SE of Nogales, Sonora” by Barnes and McDunnough (1912), Contr. Nat. Hist. Lepid. N. Am. 1(3): 23; further defined as “western slopes of the Patagonia Mtns., S. E. of Nogales, Sonora, Mexico” by H. Freeman (1963), J. Res. Lepid. 2(2): 139.  
**Types:** Lectotype in BMNH, designated by I.C.Z.N. *Opinion* 483; restricted to fig. 4 ♀ D in H. Druce (1897), Biol. centr.-amer. Lepid. Het. 3(133): pl. 69; also figured by D. Stallings and Turner (1954), Lepid. News 8(3/4): pl. 3, 3rd row ♂ D&V. The same

specimen was designated lectotype by Skinner and R. Williams (1924), Trans. Am. Entomol. Soc. 50(3): 205. I.C.Z.N. *Opinion* 483 placed this name on the *Official List of Specific Names in Zoology* as name no. 1358.

= *drucei* (Skinner, 1911)

Trans. Am. Entomol. Soc. 37(3): 207; cited *Megathymus neumoegeni* (*sensu* H. Druce (1897), Biol. centr-amer. Lepid. Het. 3(133): pl. 69, fig. 3 ♂ D).

**Original Combination:** [*Megathymus*]. *drucei*

**Type Locality:** "Mexico"

**Types:** Lectotype in BMNH, designated by I.C.Z.N. *Opinion* 483; figured by D. Stallings and Turner (1954), Lepid. News 8(3-4): pl. 3, 2nd row ♂ D&V (as holotype), 4th row ♂ genitalia.

137. *Agathymus baueri* (D. Stallings & Turner, 1954)

a. *Agathymus baueri baueri* (D. Stallings & Turner, 1954)

Lepid. News 8(3-4): 80-81, pl. 1, 3rd row ♂ D&V (holotype), 4th row ♀ D&V, pl. 4, 2nd row ♂ genitalia.

**Original Combination:** *Megathymus baueri*

**Type Locality:** "near Verde Hot Springs, Yavapai County, Arizona...elevation 4,000 ft."

**Types:** Holotype in PMNH.

b. *Agathymus baueri freemani* D. Stallings & Turner, 1960

Entomol. News 71(5): 109-110, 112, pl. 1, top ♂ D&V (holotype), middle ♀ D&V, bottom ♂ & ♀ genitalia.

**Original Combination:** *Agathymus freemani*

**Type Locality:** "near Bagdad, Ariz." [Yavapai County]

**Types:** Holotype in PMNH.

138. *Agathymus gentryi* Roever, 1998

Syst. W. N. Am. Butts. (41): 491-492, figs. 1a ♂ D, 1b ♂ V (holotype), 1c ♀ D, 1d ♀ V.

**Original Combination:** *Agathymus gentryi*

**Type Locality:** "Arizona. Pima County, vic. Agua Dulce Spring, 670-790 m, Agua Dulce Mountains"

**Types:** Holotype in AMNH.

139. *Agathymus mariae* (W. Barnes & Benjamin, 1924)

a. *Agathymus mariae mariae* (W. Barnes & Benjamin, 1924)

Contr. Nat. Hist. Lepid. N. Am. 5(3): 100-101.

**Original Combination:** *Megathymus mariae*

**Type Locality:** "El Paso Texas"; defined as "Franklin Mountains, El Paso, El Paso Co., Texas" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 45.

**Types:** Holotype in USNM.

b. *Agathymus mariae chinatiensis* H. Freeman, 1964

J. Lepid. Soc. 18(3): 172-173, pl. 1, 3rd row ♂ D&V, pl. 2, 3rd row ♀ D&V (holotype), pl. 3, figs. 2 ♂ genitalia, 7 ♀ genitalia, 12 cremaster.

**Original Combination:** *Agathymus chinatiensis*

**Type Locality:** "2.7 miles south of Shafter, Texas" [Presidio County]

**Types:** Holotype in AMNH.

c. *Agathymus mariae lajitaensis* H. Freeman, 1964

J. Lepid. Soc. 18(3): 174-175, pl. 1, lower row ♂ D&V, pl. 2, bottom row ♀ D&V (holotype), pl. 3, figs. 3 ♂ genitalia, 8 ♀ genitalia, 13 cremaster.

**Original Combination:** *Agathymus lajitaensis*

**Type Locality:** "10 miles west of Lajita, Texas" [Presidio County]

**Types:** Holotype in AMNH.

d. *Agathymus mariae rindgei* H. Freeman, 1964

J. Lepid. Soc. 18(3): 180-182, pl. 1, top row ♂ D&V, pl. 2 top row ♀ D&V (holotype), pl. 3, figs. 5 ♂ genitalia, 10 ♀ genitalia, 15 cremaster.

**Original Combination:** *Agathymus rindgei*

**Type Locality:** "14 miles north of Bracketville, Texas" [Kinney County]

**Types:** Holotype in AMNH.

140. *Agathymus gilberti* H. Freeman, 1964

J. Lepid. Soc. 18(3): 176-178, pl. 1, 2nd row ♂ D&V, pl. 2 2nd row ♀ D&V (holotype), pl. 3, figs. 4 ♂ genitalia, 9 ♀ genitalia, 14 cremaster.

**Original Combination:** *Agathymus gilberti*

**Type Locality:** "14 miles north of Bracketville, Texas" [Kinney County]

**Types:** Holotype in AMNH.

As mentioned under *Agathymus neumoegeni chisosensis* (H. Freeman, 1952), chromosome numbers for various members of this complex are discordant. H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 46, recorded a chromosome number of 22 for *rindgei* and 21 for *gilberti*. These two taxa have the same type locality and cannot be subspecies of the same species. They are either distinct species or synonyms. It is possible that there was an error in the determination of chromosome number. The species-level status of *gilberti* needs investigation.

\*141. *Agathymus estelleae* (D. Stallings & Turner, 1958)

Lepid. News 11(4-5): 119, 121, pl. 2, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂ & ♀ genitalia.

**Original Combination:** *Megathymus estelleae*

**Type Locality:** "the plains 56 miles southwest of Reynosa, Mexico, near General Bravo, Nuevo Leon, Mexico, at an elevation of 400 ft."

**Types:** Holotype in PMNH.



- a. **Agathymus estelleae valverdiensis** H. Freeman, 1966  
 J. Lepid. Soc. 20(3): 182-183, pl. 1, top row ♂ D&V, bottom row ♀ D&V, pl. 2 ♂&♀ genitalia.  
**Original Combination:** *Agathymus valverdiensis*  
**Type Locality:** "28 miles north of Del Rio, Val Verde County, Texas"; H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 49, added "el. 1450 ft."  
**Types:** Holotype in AMNH.  
 Roever (1975), in: Howe, Butts. N. Am.: 415, considered *valverdiensis* a "weak subspecies" of *estelleae*. Scott (1986), Butts. N. Am.: 423, considered *valverdiensis* and *estelleae* to be subspecies of *A. remingtoni* D. Stallings & Turner, 1958, Lepid. News 11(4/5): 117.
142. **Agathymus stephensi** (Skinner, 1912)  
 Entomol. News 23(3): 126-127.  
**Original Combination:** *Megathymus neumoegeni stephensi*  
**Type Locality:** "La Puerta, eastern edge of San Diego County, California"; defined as "Mason Valley (La Puerta), San Diego Co., California" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 51.  
**Types:** Syntype (#7060) in ANSP; figured by W. Barnes and McDunnough (1913), Contr. Nat. Hist. Lepid. N. Am. 2(1): pl. 1, fig. 7 ♀ D.
143. **Agathymus alliae** (D. Stallings & Turner, 1957)  
 a. **Agathymus alliae alliae** (D. Stallings & Turner, 1957)  
 Entomol. News 68(1): 1-4, pl. 1, top row ♀ D&V (holotype), 2nd row ♂ D&V, 3rd row, genitalia of both sexes.  
**Original Combination:** *Megathymus alliae*  
**Type Locality:** "15 miles west of Cameron, Arizona, el. 5000 ft."; defined as "15 miles west of Cameron, Coconino Co., along canyon of Little Colorado River, el. 5000 ft., Arizona" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 53.  
**Types:** Holotype in PMNH.  
 b. **Agathymus alliae paiute** Roever, 1998  
 Syst. W. N. Am. Butts. (41): 492-493, figs. 3a ♂ D, 3b ♂ V (holotype), 3b ♀ D, 3d ♀ V.  
**Original Combination:** *Agathymus alliae paiute*  
**Type Locality:** "Nevada: Clark County, Peek-a-boo Cyn. [*sic!*], N end Las Vegas Range, ca. 1770 m"  
**Types:** Holotype in AMNH.

Genus *Megathymus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 83. Type-species: *Eudamus* (?) *yuccae* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (23-26): pl. 70, figs. [1]-[5] ♂ [not ♀], larva and pupa, by original designation. I.C.Z.N. *Opinion 483* placed this name on the *Official List of Generic Names in Zoology* as name no. 1222.

144. **Megathymus yuccae** (Boisduval & Le Conte, [1837])  
 a. **Megathymus yuccae yuccae** (Boisduval & Le Conte, [1837])  
 Hist. Lépid. Amér. sept. (24): pl. 70, [1] ♂ D, [2] ♂ V, [4] larva, [5] pupa [not ♀].  
**Original Combination:** *Eudamus* (?) *Yuccae*  
**Type Locality:** Not stated (there is no text), but "Georgia" implied from the notes for the original drawing by John Abbot; defined as "South Carolina to the southern tip of Florida" by H. Freeman (1943), Entomol. News 54(9): 211; redefined as "Scriven [*sic!*; Screven] County, Georgia" by H. Freeman (1952), Field & Lab. 20(1): 30; neotype from "Aiken County, South Carolina."  
**Types:** Types are the specimens figured by John Abbot, and are probably lost. Neotype in AMNH, designated by H. Freeman (1952), Field & Lab. 20(1): 30.  
 I.C.Z.N. *Opinion 483* placed this name on the *Official List of Specific Names in Zoology* as name no. 1387.  
 = *alabamiae* H. Freeman, 1943  
 Entomol. News 54(3): 76-77.  
**Original Combination:** *Megathymus yuccae alabamiae*  
**Type Locality:** "Anniston, Alabama" [Calhoun County]  
**Types:** Holotype in AMNH.  
 = *buchholzi* H. Freeman, 1952  
 Field & Lab. 20(1): 31-33.  
**Original Combination:** *Megathymus yuccae buchholzi*  
**Type Locality:** "Jupiter, Florida" [Palm Beach County]  
**Types:** Holotype in AMNH.
- b. **Megathymus yuccae reinthali** H. Freeman, 1963  
 J. Lepid. Soc. 17(2): 91, 93, pl. 1, 3rd row ♂ D&V, 4th row ♀ D&V (holotype).  
**Original Combination:** *Megathymus yuccae reinthali*  
**Type Locality:** "two miles W. Ben Wheeler, Texas" [Van Zandt County]  
**Types:** Holotype in AMNH.  
 = *kendalli* H. Freeman, 1965  
 J. Lepid. Soc. 19(2): 83-84, pl. 1, top row ♂ D&V, 2nd row ♀ D&V.  
**Original Combination:** *Megathymus yuccae kendalli*  
**Type Locality:** "San Antonio, Bexar County, Texas"  
**Types:** Holotype in AMNH.
- c. **Megathymus yuccae wilsonorum** D. Stallings & Turner, 1958  
 Lepid. News 11(4/5): 129-130, pl. 3, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂&♀ genitalia.



- Original Combination:** *Megathymus wilsonorum*  
**Type Locality:** "around Victoria, Tamps., Mexico" [Tamaulipas]  
**Types:** Holotype in PMNH.
- d. **Megathymus yuccae louiseae** H. Freeman, 1963  
 J. Lepid. Soc. 17(2): 95-96, pl. 1, top row ♂ D&V, 2nd row ♀ D&V (holotype).  
**Original Combination:** *Megathymus yuccae louiseae*  
**Type Locality:** "16 miles north Del Rio, Texas" [Val Verde County]  
**Types:** Holotype in AMNH.
- e. **Megathymus yuccae coloradensis** C. Riley, 1878  
 Trans. Acad. Sci. St. Louis 3(4): 567-568 (name given on 568).  
**Original Combination:** [*Megathymus yuccae*] var. *coloradensis*  
**Type Locality:** "Colorado"; suggested to be "near Colorado Springs, Colorado" by H. Freeman (1969), J. Lepid. Soc. 23 (suppl.1): 13. [El Paso County]  
**Types:** Syntypes in USNM.
- = *stallingsi* H. Freeman, 1943  
 Entomol. News 54(9): 214-215.  
**Original Combination:** *Megathymus yuccae stallingsi*  
**Type Locality:** "Caldwell, Kansas" [Sumner County]  
**Types:** Holotype in AMNH.
- = *winkensis* H. Freeman, 1965  
 J. Lepid. Soc. 19(2): 87-88, pl. 1, 3rd row ♂ D&V, lower row ♀ D&V.  
**Original Combination:** *Megathymus yuccae winkensis*  
**Type Locality:** "Wink, Winkler County, Texas"  
**Types:** Holotype in AMNH.
- = *elidaensis* D. Stallings, Turner & V. Stallings, 1966  
 J. Lepid. Soc. 20(3): 170-172, pl. 4, top row ♀ D&V (holotype), bottom row ♂ D&V.  
**Original Combination:** *Megathymus yuccae elidaensis*  
**Type Locality:** "New Mexico, Roosevelt County, southwest of Elida"  
**Types:** Holotype in PMNH.
- = "dee" H. Freeman, 1943  
 Entomol. News 54(9): 216-217.  
**Original Combination:** *Megathymus yuccae stallingsi* ♀ form *dee*  
**Type Locality:** "Caldwell, Kansas" [Sumner County]  
**Types:** Holotype in AMNH.
- f. **Megathymus yuccae reubeni** D. Stallings, Turner & V. Stallings, 1963  
 J. Lepid. Soc. 17(2): 87, pl. 3, top row ♀ D&V (holotype), bottom row ♂ D&V.  
**Original Combination:** *Megathymus yuccae reubeni*  
**Type Locality:** "at an elevation of 5300 feet in the Hueco Mts. of Texas" [El Paso County]  
**Types:** Holotype in PMNH.
- g. **Megathymus yuccae navajo** Skinner, 1911  
 Entomol. News 22(7): 300.  
**Original Combination:** *Megathymus yuccae* var. *navajo*  
**Type Locality:** "Fort Wingate, New Mexico"; defined as "Fort Wingate, Zuni Mountains, McKinley Co., New Mexico" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 14; holotype labeled "Mountain back of post; Fort Wingate, N. M."  
**Types:** Syntype (#7052) in ANSP; figured by Skinner (1911), Trans. Am. Entomol. Soc. 37(3): pl. 10.
- = *arizonae* Tinkham, 1954  
 Bull. South. Calif. Acad. Sci. 53(2): 81-83, pl. 18, figs. 1 ♂ D, 2 ♀ D, pl. 19, figs. 3 ♂ D, 7 ♂ V (holotype); 4 ♀ D, 8 ♀ V.  
**Original Combination:** *Megathymus yuccae arizonae*  
**Type Locality:** "Mountain View, Pima County, Arizona"  
**Types:** Holotype in LACM.
- = *browni* D. Stallings & Turner, 1960  
 Entomol. News 71(5): 112, 114-115, pl. 2, top ♂ D&V (holotype), middle ♀ D&V, bottom ♂&♀ genitalia.  
**Original Combination:** *Megathymus yuccae browni*  
**Type Locality:** "near Salina, Utah" [Sevier County]  
**Types:** Holotype in PMNH.
- = *albasuffusa* R. Wielgus & D. Wielgus, 1974  
 Bull. Allyn Mus. (17): 1-3, figs. 4 ♀ D, 5 ♀ V (holotype); 6 ♀ D, 7 ♀ V, 8 ♂ D, 9 ♂ V, 10 ♂ D, 11 ♂ V.  
**Original Combination:** *Megathymus coloradensis albasuffusa*  
**Type Locality:** "Wahweap Campground, Glen Canyon National recreation Area, 5 miles northwest of Glen Canyon Dam, 3700' elevation, Coconino County, Arizona"  
**Types:** Holotype in MGCL.
- h. **Megathymus yuccae martini** D. Stallings & Turner, 1956  
 Bull. South. Calif. Acad. Sci. 55(3): 150-152; figured by Tinkham (1954), Bull. South. Calif. Acad. Sci. 53(2): pl. 18, figs. 3 ♂ D, 4 ♀ D; pl. 19, figs. 1 ♂ D, 2 ♀ D, 5 ♂ V, 6 ♀ V.  
**Original Combination:** *Megathymus yuccae martini*  
**Type Locality:** "Little Rock, Los Angeles Co., California"  
**Types:** Holotype in PMNH.

- = *maudae* D. Stallings, Turner & V. Stallings, 1966  
 J. Lepid. Soc. 20(3): 169-170, pl. 3, top row ♀ D&V (holotype), bottom row ♂ D&V.  
**Original Combination:** *Megathymus yuccae maudae*  
**Type Locality:** "California, San Bernardino County, 21 miles north of Essex, on Cima Road in Providence Mountains"  
**Types:** Holotype in PMNH.
- i. **Megathymus yuccae harbisoni** J. Emmel & T. Emmel, 1998  
 Syst. W. N. Am. Butts. (64): 763-764, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Megathymus yuccae harbisoni*  
**Type Locality:** "California: San Diego County; 1 mile west of Scissors Crossing"  
**Types:** Holotype in SDMC.
145. **Megathymus ursus** Poling, 1902
- a. **Megathymus ursus ursus** Poling, 1902  
 Entomol. News 13(4): 97-98, pl. 4; this figure reproduced by W. Holland (1931), Butt. Book (rev. ed.): pl. 72, fig. 1 ♂ D.  
**Original Combination:** *Megathymus ursus*  
**Type Locality:** "Pinal County, Arizona"; defined as "Santa Catalina Mountains, west of Redington, Pima Co., Arizona" by H. Freeman (1969), J. Lepid. Soc. 23 (suppl.1): 25.  
**Types:** Holotype in USNM.
- b. **Megathymus ursus deserti** R. Wielgus, J. Wielgus & D. Wielgus, 1972  
 Bull. Allyn Mus. (9): 1-4, figs. 1 ♀ D, 2 ♀ V (holotype); 3 ♂ D, 4 ♂ V.  
**Original Combination:** *Megathymus ursus deserti*  
**Type Locality:** "Arizona, Maricopa County, 1/2 - 1-1/2 miles north of Camp Creek on road to Seven Springs, 3500-3680 feet elevation"  
**Types:** Holotype in LACM.
- c. **Megathymus ursus violae** D. Stallings & Turner, 1956  
 Lepid. News 10(1/2): 4-5, pl. 2, top row ♀ D&V (holotype), 2nd row ♂ D&V, lower row ♂&♀ genitalia.  
**Original Combination:** *Megathymus violae*  
**Type Locality:** "Carlsbad Caverns National Park in the Guadalupe Mts., New Mexico" [Eddy County]  
**Types:** Holotype in PMNH.
146. **Megathymus cofaqui** (Strecker, 1876)
- a. **Megathymus cofaqui cofaqui** (Strecker, 1876)  
 Proc. Acad. Nat. Sci. Philad. 28[7]: 148-150; figured by Strecker [1878], Lepid. Rhop. Het. (15): pl. 15, fig. 2 ♀ D&V (holotype).  
**Original Combination:** *Aegiale Cofaqui*  
**Type Locality:** "Georgia"; defined as "somewhere in northern Florida near Georgia" by H. Freeman (1963), J. Res. Lepid. 2(2): 140; subsequently defined as "Burke County, Georgia" by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): 3.  
**Types:** Holotype in FMNH; figured by W. Barnes and McDunnough (1912), Contr. Nat. Hist. Lepid. N. Am. 1(3): 36, and Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): fig. 5 ♀ D.  
 = *harrisi* H. Freeman, 1955  
 Am. Mus. Novit. (1711): 2, figs. 3 ♂ D, 4 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 27 ♂ genitalia, 28 ♀ genitalia.  
**Original Combination:** *Megathymus harrisi*  
**Type Locality:** "Stone Mountain, Georgia" [De Kalb County]  
**Types:** Holotype in AMNH.  
 This synonymy determined by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(4): 3.
- b. **Megathymus cofaqui slotteni** Gatrell, 1999  
 Tax. Rep. Int. Lepid. Surv. 1(4): 4-5, figs. 1 ♂ D, 2 ♀ D (holotype).  
**Original Combination:** *Megathymus cofaqui slotteni*  
**Type Locality:** "Vicinity of Williston, Levy County, Florida"  
**Types:** Holotype in MGCL.
147. **Megathymus streckeri** (Skinner, 1895)
- a. **Megathymus streckeri streckeri** (Skinner, 1895)  
 Can. Entomol. 27(7): 179; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 24 ♂ D.  
**Original Combination:** *Aegiale Streckeri*  
**Type Locality:** "Texas...probably from Arizona...Colorado"; defined as "Petrified Forest area, Arizona" by H. Freeman (1963), J. Res. Lepid. 2(2): 141. [Apache County]  
**Types:** Syntypes in FMNH and (#7060) ANSP.
- b. **Megathymus streckeri texana** W. Barnes & McDunnough, 1912  
 Contr. Nat. Hist. Lepid. N. Am. 1(3): 39-40, no. 2, pl. 2, fig. 9 ♀ (holotype).  
**Original Combination:** *Megathymus streckeri texana*  
**Type Locality:** "South Texas (Dallas, San Antonio)"; defined as "Kerrville, Texas" by H. Freeman (1963), J. Res. Lepid. 2(2): 141. [Kerr County]  
**Types:** Holotype in USNM.  
 = *albocincta* W. Holland, 1930  
 Ann. Carnegie Mus. 19(3): 159-160.  
**Original Combination:** *Megathymus albocincta*  
**Type Locality:** Stated to be "southwestern Texas" by W. Holland (1931), Butt. Book (rev. ed.): 402.  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. ♂ D.
- c. **Megathymus streckeri leussleri** W. Holland, 1931  
 Ann. Carnegie Mus. 20(2): 262-263; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 72, figs. 10 ♂ D (holotype), 12

♀ D (allotype).

**Original Combination:** *Megathymus leussleri*

**Type Locality:** "sandhills of Nebraska"; defined as "Valentine, Nebraska" by H. Freeman (1944), Entomol. News 55(4): 104; redefined as "Sand Hills near Valentine, Cherry Co., Nebraska" by H. Freeman (1969), J. Lepid. Soc. 23(suppl. 1): 24.

**Types:** Holotype in CMNH.

#### Genus *Stallingsia* H. Freeman, 1959

Lepid. News 12(3/4): 87-88. Type-species: *Megathymus maculosus* H. Freeman, 1955, Am. Mus. Novit. (1711): 10-11, figs. 21-24, 32-33, by original designation.

#### 148. *Stallingsia maculosus* (H. Freeman, 1955)

Am. Mus. Novit. (1711): 10-11, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V, 32 ♂ genitalia, 33 ♀ genitalia.

**Original Combination:** *Megathymus maculosus*

**Type Locality:** "Kingsville, Texas" [Kleberg County]

**Types:** Holotype in AMNH.

Recorded in older literature as *smithi* H. Druce, 1896, Biol. centr.-amer., Lepid. Het. 2(131): 320, a Mexican congener.

#### Tribe *incertae sedis*

The phylogenetic position of the following genera currently remains uncertain, as does their tribal affiliation.

#### Genus *Erionota* Mabilie, 1878

Annls. Soc. Entomol. Belg. 21: 34. Type-species: *Papilio thrax* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 794, no. 260, by designation of E. Watson (1893), Proc. Zool. Soc. Lond. 1893(1): 72, 86.

#### 149. *Erionota thrax* (Linnaeus, 1767)

##### a. *Erionota thrax thrax* (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 794, no. 260.

**Original Combination:** *P[apilio]. P[lebejus Urbicola]. Thrax*

**Type Locality:** "Java"

**Types:** Lectotype in LSUK, designated by Corbet and Pendlebury (1956), Butt. Malay Pen.: pl. 29, fig. 8.

Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 45, substituted the name *Erionota torus* Evans, 1941, for this species, as it occurs in Hawaii. As explained in the excluded species appendix, this was based on a misidentification of *Erionota thrax* by Kawazoé and Wakabayashi (1976), Col. Illus. Butts. Japan: 310-311.

#### Genus *Perichares* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Papilio coridon* Fabricius, 1775, Syst. Entomol.: 533, no. 385 (= *Papilio philetes* Gmelin, [1790], Syst. Nat. (ed. 13) 1(5): 2364, no. 842; homonym), by original designation.

#### \*150. *Perichares philetes* (Gmelin, [1790])

Syst. Nat. (ed. 13) 1(5): 2364, no. 842; cited *Papilio coridon* Fabricius, 1775, Syst. Entomol.: 533, no. 385.

**Original Combination:** [*Papilio Plebejus Urbicola*] *Philetes*

Proposed to replace *Papilio coridon* Fabricius, 1775, with the same data (Code Article 60.3).

= ~~†~~*coridon* (Fabricius, 1775)

Syst. Entomol.: 533, no. 385.

**Original Combination:** *P[apilio]. P[lebejus] U[rbicola] Coridon*

**Type Locality:** "Jamaica. Mus. D. Hunter"

**Types:** Syntype in ZMUC, if it is accepted that *Hesperia phocion* was proposed as a replacement name.

Preoccupied by *Papilio coridon* Poda, 1761, Ins. Mus. graec.: 77, no. 48.

= ~~†~~*phocion* (Fabricius, 1793)

Entomol. Syst. 3(1): 335, no. 274; cited *Papilio coridon* Fabricius, 1775, Syst. Entomol.: 533, no. 385.

**Original Combination:** *H[esperia]. U[rbicola]. Phocion*

Proposed to replace *Papilio coridon* Fabricius, 1775 (Code Article 60.3). *Papilio philetes* Gmelin, [1790], predates it by three years; it is also a junior objective synonym of *philetes*. This taxon has been considered a homonym of *Papilio phocion* Fabricius, 1781, Spec. Ins. 2: 138, no. 642, and *Papilio phocion* Fabricius, 1793, Entomol. Syst. 3(1): 218, no. 683; however, it was proposed in the genus *Hesperia* and is not homonymous with those names.

= ~~†~~*julianus* (Turton, 1801)

Gen. Syst. Nat. 3(2): 158.

**Original Combination:** [*Papilio Hesperia Urbanus*] *Julianus*

Proposed to replace *Hesperia phocion* Fabricius, 1793, erroneously thought to be preoccupied; a junior objective synonym of *Hesperia phocion*.

= *trinitad* (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 626.



**Original Combination:** *Eudamus Trinidad*

**Type Locality:** “recontrée dans l’île de Cuba”

**Types:** Holotype in MNHP.

a. **Perichares philetes adela** (Hewitson, 1867)

Ill. exot. Butts. 4: [14], pl. *Hesperia* 1 [56], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D.

**Original Combination:** *Hesperia Adela*

**Type Locality:** “Rio de Janeiro, Brasil”

**Types:** Syntypes in BMNH.

= *dolores* (Reakirt, 1868)

Proc. Acad. Nat. Sci. Philad. 20: 87-88, no. 52.

**Original Combination:** *Goniloba dolores*

**Type Locality:** “Mexico, near Vera Cruz” [Veracruz]

**Types:** Location of type(s) not known, not at ANSP.

= *marmorata* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81-82, no. 3.

**Original Combination:** *P[erichares]. marmorata*

**Type Locality:** “Venezuela”

**Types:** Syntype (#15315) in MCZ.

Tribe **Thymelicini** Tutt, 1905

Nat. Hist. Brit. Butts. 1(1):90, 91 (as “Thymelicinae” and “Thymelici”). Type-genus: *Thymelicus* Hübner, [1819], Verz. bekannt. Schmett. (8): 113.

Genus **Ancyloxypha** C. Felder, [1863]

Verh. zool.-bot. Ges. Wien 12(1): 477. Type-species: *Hesperia numitor* Fabricius, 1793, Entomol. Syst. 3(1): 324, no. 228, by original designation. This name has frequently been misspelled, most commonly as “*Ancyloxipha*.”

151. **Ancyloxypha numitor** (Fabricius, 1793)

Entomol. Syst. 3(1): 324, no. 228; cited Jones Icones 6: pl. 74, fig. 2.

**Original Combination:** *H[esperia]. R[uralis]. Numitor*

**Type locality:** “in Indiis Dom. Drury”; stated to be “certainly the eastern U.S.” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30.

**Types:** Type(s) lost, name based on Jones’ figure.

= *bion* (Fabricius, 1798)

Entomol. Syst. Suppl.: 432.

**Original Combination:** *H[esperia]. U[rbicola]. Bion*

**Type Locality:** “in America meridionali. Dom. v. Rohr”; stated as “certainly the eastern U.S.” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30.

**Types:** Syntype in ZMUC.

= *puer* (Hübner, 1823)

Zutr. Samml. exot. Schmett. 2: pl. [48], figs. 275 ♂ D, 276 ♂ V [1821]; 17, no. 138 (1823, name given).

**Original Combination:** *Thymelicus Puer*

**Type Locality:** “Florida”

**Types:** Type(s) probably lost.

= *marginatus* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 308, fig. 131 ♂ D&V.

**Original Combination:** *Heteropterus marginatus*

**Type Locality:** “Massachusetts” implied from the title of the first edition.

**Types:** Holotype (#26353) in MCZ.

= *longleyi* French, 1897

Can. Entomol. 29(4): 80.

**Original Combination:** *Ancyloxypha Longleyi*

**Type Locality:** “Ridgeland, near Chicago” [Iroquois County, Illinois]

**Types:** Holotype in USNM.

152. **Ancyloxypha arene** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 214-215, no. 18.

**Original Combination:** *Heteropterus Arene*

**Type Locality:** “Arizona”; neotype from “near Tucson.” [Pima County, Arizona]

**Types:** Neotype (#33628) in USNM, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 267, fig. 5 ♂ D&V. This specimen is the holotype of *myrtis* (see below).

= *myrtis* (W. H. Edwards, 1882)

Papilio 2(2): 26.

**Original Combination:** *Copaodes Myrtis*

**Type Locality:** “near Tucson” [Pima County, Arizona]

**Types:** Holotype (#33628) in USNM.

- A junior objective synonym of *Ancyloxypha arene* (W. H. Edwards, 1871).
- = *euphrasia* (Plötz, 1884)  
Stettiner Entomol. Ztg. 45(4-6): 166, no. 63; cited unpublished pl. 773.  
**Original Combination:** [*Apaustus*] *Euphrasia*  
**Type Locality:** "Mexiko"  
**Types:** Types in ZMHB.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined this synonymy through an examination of the unpublished drawing made by Plötz.
  - = *leporina* (Plötz, 1884)  
Stettiner Entomol. Ztg. 45(4-6): 166, no. 64; cited unpublished pl. 774.  
**Original Combination:** [*Apaustus*] *Leporina*  
**Type Locality:** "Mexiko"  
**Types:** Type(s) may be in ZMHB or lost.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined this synonymy through an examination of the unpublished drawing made by Plötz.
  - = *isidorus* (Plötz, 1884)  
Stettiner Entomol. Ztg. 45(7-9): 287, no. 11; cited unpublished pl. 780.  
**Original Combination:** [*Thymelicus*] *Isidorus*  
**Type Locality:** "Mexiko"  
**Types:** Types in ZMHB.

#### Genus *Oarisma* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 75. Type-species: *Hesperia poweshiek* Parker, 1870, Am. Entomol. Bot. 2(9): 271, by original designation.

- = *Paradopaea* Godman, 1900  
In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 3(156): pl. 92, figs. 23-29. Type-species: *Hesperia garita* Reakirt, 1866, Proc. Entomol. Soc. Philad. 6[1]: 150-151, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 96.

- 153. ***Oarisma poweshiek*** (Parker, 1870) (emended)  
Am. Entomol. Bot. 2(9): 271-272.  
**Original Combination:** *Hesperia Poweshiek*  
**Type Locality:** "a grassy prairie slope, at Grinnell, Iowa" [Poweshiek County]  
**Types:** Location of type(s) not known.  
This name is emended since it is clearly stated in the text that it was named for the County and the native American. This has been done by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 31, and Layberry *et al.* (1998), Butts. Can.: 48.
- 154. ***Oarisma garita*** (Reakirt, 1866)
  - a. ***Oarisma garita garita*** (Reakirt, 1866)  
Proc. Entomol. Soc. Philad. 6[1]: 150-151.  
**Original Combination:** *Hesperia Garita*  
**Type Locality:** "Rocky Mountains, Colorado Terr."  
**Types:** Type(s) may be in FMNH.
  - = *hylax* (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 266, 274, no. 16.  
**Original Combination:** *Thymelicus* [*sic!*] *Hylax*  
**Type Locality:** "Colorado"; defined as "South Park and at Twin Lakes, Colorado" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162; further defined as "vicinity of Twin Lakes, Lake County, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 269.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(1): 269-270, fig. 6 ♂ D&V.
- 155. ***Oarisma edwardsii*** (W. Barnes, 1897)  
Can. Entomol. 29(2): 42.  
**Original Combination:** *Thymelicus Edwardsii*  
**Type Locality:** "near Denver, Colorado" This species is not currently known from the Denver area or Platte River drainage; the type probably came from the Arkansas River drainage (A. Warren pers. comm. 2006).  
**Types:** Holotype in USNM.

#### Genus *Copaeodes* Speyer, 1877

In: W. H. Edwards, Trans. Am. Entomol. Soc. 6(1): 49, 64. Type-species: *Heteropterus procris* W. H. Edwards (1871), Trans. Am. Entomol. Soc. 3(3/4): 215 (= *Ancyloxipha* [*sic!*] *aurantiaca* Hewitson, 1868, Descr. One Hundred new Spec. Hesp. (2): 45; synonym), by designation of W. F. Kirby [1879], Zool. Rec. 14(1877) (Ins.): 139.

- 156. ***Copaeodes aurantiaca*** (Hewitson, 1868)  
Descr. One Hundred new Spec. Hesp. (2): 45, no. 1.  
**Original Combination:** *Ancyloxipha* [*sic!*] *aurantiaca*  
**Type Locality:** Not stated.

- Types:** Holotype in BMNH.  
Species-genus gender conformation is *aurantiacus*.
- = *waco* (W. H. Edwards, 1868)  
Trans. Am. Entomol. Soc. 2(2): 122.  
**Original Combination:** *Hesperia Waco*  
**Type Locality:** "Texas"; neotype from "Dallas, Texas." [Dallas County]  
**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 271, fig. 7 ♂ D&V.
  - = *simplex* (R. Felder, 1869)  
Verh. zool.-bot. Ges. Wien 19: 476, no. 31.  
**Original Combination:** *Ancyloxypha simplex*  
**Type Locality:** "Cordoba, Potrero" [Veracruz, Mexico]  
**Types:** Holotype in NMW.
  - = *procris* (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 205, 215, no. 19.  
**Original Combination:** *Heteropterus Procris*  
**Type Locality:** "near Waco, Texas" [McLennan County]  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 274, fig. 9 ♂ D&V.  
The type series included both *C. aurantiaca* and *C. minima*. F. Brown and L. Miller (1977), *ibid.*, selected a specimen of the former as lectotype.
  - = *macra* (Plötz, 1884)  
Stettiner Entomol. Ztg. 45: 284, no. 2; cited unpublished pl. 1500 (nachtrag).  
**Original Combination:** [*Thymelicus*] *Macra*  
**Type Locality:** "Nord-Amerika"  
**Types:** Type(s) may be in ZSMC, ZMHB, or lost.
  - = *candida* W. G. Wright, 1890  
Proc. Calif. Acad. Sci. (2)3: 34; figured by W. G. Wright (1905), Butts. W. Coast: pl. 30, figs. 411 ♀ [not ♂] D, 411b ♂ [not ♀] D, 411c ♂ V.  
**Original Combination:** *Copaeodes candida*  
**Type Locality:** "cañons in the foothills of southwestern California"  
**Types:** Lectotype (#3227) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 38.
157. **Copaeodes minima** (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(2): 189, 196, no. 14.  
**Original Combination:** *Hesperia Minima*  
**Type Locality:** "Waco, Texas" [McLennan County]  
**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 272, fig. 8 ♂ D&V.  
Species-genus gender conformation is *minimus*.
- = *rayata* W. Barnes & McDunnough, 1913  
Contr. Nat. Hist. Lepid. N. Am. 2(3): 100, pl. 3, figs. 1 ♂ D, 2 ♀ D.  
**Original Combination:** *Copaeodes rayata*  
**Type Locality:** "San Benito, Texas" [Cameron County]  
**Types:** Syntypes in USNM.  
Durden (1982), J. Lepid. Soc. 36(1): 9, claimed this is a winter form, genitally distinct from *minima*.  
‡"singularis" (Plötz, 1884)  
Stettiner Entomol. Ztg. 45(7-9): 284, under no. 1.  
**Original Combination:** [*Thymelicus*] *Waco* [synonym] *Singularis*  
Plötz introduced "*Thymelicus singularis* (Herrich-Schäffer manuscript)" as a synonym of *waco* without description or indication; a *nomen nudum*.

Genus **Adopaeoides** Godman, 1900

- In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 470. Type-species: *Apaustus prittwitzii* Plötz, 1884, Stettiner Entomol. Ztg. 45(4-6): 165, no. 61, by designation of I.C.Z.N. *Opinion* 825; the same *Opinion* placed this name on the *Official Index of Generic Names in Zoology* as name no. 1766.
- = ‡*Neadopaea* Hayward, 1941  
Revta. Mus. La Plata, Zool. (n.s.)2(14): 285. Type-species: *Apaustus prittwitzii* Plötz, 1884, Stettiner Entomol. Ztg. 45(4-6): 165, no. 61, by original designation. A junior objective synonym of *Adopaeoides* Godman, 1900.
158. **Adopaeoides prittwitzii** (Plötz, 1884)  
Stettiner Entomol. Ztg. 45(4-6): 165, no. 61; cited unpublished pl. 771.  
**Original Combination:** [*Apaustus*] *Prittwitzii*  
**Type Locality:** "Mexiko"  
**Types:** Type(s) may be in ZSMC, ZMHB, or lost.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 146, determined that this is "*Adopaeoides simplex*, Godm. (Nec Feld.)" through an examination of the unpublished drawing made by Plötz. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 309, concurred. I.C.Z.N. *Opinion* 825 placed this name on the *Official List of Specific Names in Zoology* as name no. 2209.



Genus *Thymelicus* Hübner, [1819]

- Verz. bekannt. Schmett. (7): 113. Type-species: *Papilio acteon* Rottemburg, 1775, Naturforscher 6: 30-31, no. 18, by designation of Butler (1870), Entomol. Mon. Mag. 7(76): 94.
- = *Adopoea* Billberg, 1820  
Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio linea* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160 (= *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79, no. 51; synonym), by monotypy.
- = ‡*Pelion* W. F. Kirby, 1858  
List Brit. Rhop.: [3]. Type-species: *Papilio linea* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 160 (= *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79; synonym), by monotypy. A junior objective synonym of *Adopoea* Billberg, 1820. McHenry (1962), J. Lepid. Soc. 16(2): 104, examined Kirby's rare document, and the arrangement herein relies on his appraisal.
- = ‡*Doricha* Moore, 1883  
Proc. Zool. Soc. Lond. 1883(3): 317. Type-species: *Papilio sylvestris* Poda, 1761, Ins. Mus. graec.: 79, by original designation. Preoccupied by *Doricha* Reichenbach, 1853, J. Ornithologie 1 (Aufzählung Colibris): 12.
159. ***Thymelicus lineola*** (Ochsenheimer, 1808)  
Most of the Palearctic synonymy of this species is not listed below. Asou and Sekiguchi (2002), Trans. Lepid. Soc. Japan 53(2): 103-109, detailed the close relationship between Japanese, American and European populations of this species.
- a. ***Thymelicus lineola lineola*** (Ochsenheimer, 1808)  
Schmett. Europ. 1(2): 230, no. 19.  
**Original Combination:** *Pap[ilio]. Lineola*  
**Type Locality:** "Germania"  
**Types:** Type(s) may be in HNHM or lost.
- = *virgula* (Hübner, [1813])  
Samml. europ. Schmett. 1: pl. 130, figs. 660 ♂ D, 661 ♂ V, 662 ♀ D, 663 ♀ V.  
**Original Combination:** [*Papilio*] *Virgula*  
**Type Locality:** "Europa"  
**Types:** Type(s) may be in NMW, but probably lost.
- = *kirbyi* (Reed, 1877)  
An. Univ. Chile 51(9): 722.  
**Original Combination:** *Pamphila Kirbyi*  
**Type Locality:** Not stated.  
**Types:** Holotype in MHNS.  
Hayward (1955), Entomol. 88(1110): 262, determined this synonymy.
- = *ludovicae* (Mabille, 1883)  
Annls. Soc. Entomol. Belg. 27: 118; (c. r.) (31): lxxviii-lxix, in reference to p. 118.  
**Original Combination:** *Pamphila Ludovicae*  
**Type Locality:** "E Gallia in Montibus Arvernicae...et Pyrenaeis" [France]  
**Types:** Syntypes in MNHP and BMNH.
- = ‡"pallida" Tutt, 1896  
Brit. Butts.: 136.  
**Original Combination:** [*Thymelicus lineola*] Ab. *pallida*  
**Type Locality:** Not stated; "Britain" implied from the title of the book.  
**Types:** Location of type(s) not known, possibly BMNH.

Tribe *Calpodini* A. Clark, 1948

Proc. Biol. Soc. Wash. 61: 81. Type-genus: *Calpodes* Hübner, [1819], Verz. bekannt. Schmett. (7): 107. Proposed by indication (see Code Article 13.2.1). Voss (1952), Ann. Entomol. Soc. Am. 45(2): 255, also proposed this name; he did not cite Clark, but established *Calpodes* as the type-genus, thus validating Clark's authorship.

Genus *Calpodes* Hübner, [1819]

Verz. bekannt. Schmett. (7): 107. Type-species: *Papilio ethlius* Stoll, 1782, Uidl. Kapellen 4(33): 212, pl. 392, figs. A, B; (34): 249 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 82.

160. ***Calpodes ethlius*** (Stoll, 1782)  
Uidl. Kapellen 4(33): 212, pl. 392, figs. A ♂ D, B ♂ V; (34): 249 (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicol[a]. Ethlius*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost (Raye de Breukelewaert collection, in RMNH?).
- = *chemnis* (Fabricius, 1793)  
Entomol. Syst. 3(1): 331, no. 257; cited Jones' Icones 6: pl. 86, fig. 2; figured by Donovan (1802), Epit. Ins. India: unnumbered plate D 2 (a copy from Jones Icones).  
**Original Combination:** *H[esperia]. U[r]bicola]. Chemnis*  
**Type Locality:** "in Indiis Dom. Jones"; suggested to be "Jamaica" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 50.

**Types:** Type(s) probably lost.

= *olynthus* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (25): pl. 75, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Eudamus* ? *Olynthus*

**Type Locality:** Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection (USNM and/or BMNH).

#### Genus *Panoquina* Hemming, 1934

Entomol. 67(2)[849]: 38. Type-species: *Hesperia panoquin* Scudder, 1863, Proc. Essex Inst. 3: 178-179, no. 81, as replacement name. Proposed to replace *Prenes* Scudder, 1872, preoccupied (Code Articles 60.3, 67.8).

= ‡*Prenes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Hesperia panoquin* Scudder, 1863, Proc. Essex Inst. 3: 178-179, no. 81, by original designation. Preoccupied by *Prenes* Gistel, 1848, Nat. Thierr.: 10.

#### 161. *Panoquina panoquin* (Scudder, 1863)

Proc. Essex Inst. 3: 178-179, no. 81.

**Original Combination:** *Hesperia Panoquin*

**Type Locality:** "Conn." [Connecticut]

**Types:** Syntypes may be in MCZ.

= *ophis* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 216, no 21.

**Original Combination:** *Hesperia Ophis*

**Type Locality:** "Apalachicola, Fla."; neotype from "St. George's Island [sic], Franklin County, Florida."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 62, fig. 25 ♂ D&V.

‡"cochles" (Scudder, 1889)

Butts. E. U. S. & Can. 3(12): 1867.

**Original Combination:** [*Prenes panoquin*] = *Hesperia cochles*

Proposed as a Latreille manuscript name without a description or indication; a *nomen nudum*.

‡"wimico" (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 55, under no. 361.

**Original Combination:** [*Hesperia*] *Panoquin* [synonym] *Wimico*

This name was listed without a description or indication; a *nomen nudum*.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing (pl. 585, from "Florida") made by Plötz.

#### 162. *Panoquina panoquinoides* (Skinner, 1891)

a. *Panoquina panoquinoides panoquinoides* (Skinner, 1891)

Entomol. News 2(9): 175; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 26 ♂ D.

**Original Combination:** *P[amphila]. panoquinoides*

**Type Locality:** "Key West, Fla. and Texas" [Monroe County, Florida]

**Types:** Syntype (#7103, labeled "holotype", from "Key West, Fla.") in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 23 ♂ D.

#### 163. *Panoquina errans* (Skinner, 1892)

Entomol. News 3(7): 174-175.

**Original Combination:** *Pamphila errans*

**Type Locality:** "California...Texas"

**Types:** Syntype (#7102, labeled "holotype", from "Cal.") in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 24 ♂ D.

MacNeill (1975), in: Howe, Butts. N. Am.: 428-429, L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 51, and Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 15, considered *P. errans* to be a species-level taxon.

#### 164. *Panoquina ocola* (W. H. Edwards, 1863)

a. *Panoquina ocola ocola* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[1]: 14, 20, no. 10; (4): pl. 11, fig. 4 ♂ D.

**Original Combination:** *Hesperia Ocola*

**Type Locality:** "Georgia; Florida; Texas"; neotype from "Fla."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 61, fig. 24 ♂ D&V.

= *stratyllis* (Burmeister, 1878)

Descr. phys. Rép. Argentine 5(Lépid.) (1): 276, no. 3.

**Original Combination:** *Pamphila Stratyllis*

**Type Locality:** "Corrientes" [Argentina]

**Types:** Syntype in MACN.

= *heterospila* (Mabille, 1878)

Petites Nouv. Entomol. 2(198): 238, no. 54.

**Original Combination:** *Pamphila heterospila*

- Type Locality:** "Peruvia"  
**Types:** Type(s) may be in MNHP (Mabille collection).  
 = *ortygia* (Möschler, 1883)  
 Verh. zool.-bot. Ges. Wien 32: 328.  
**Original Combination:** *P[amphila]. Ortygia*  
**Type Locality:** "dem Innern"; "Surinam" implied from the title of the paper.  
**Types:** Holotype in ZMHB.
165. **Panoquina lucas** (Fabricius, 1793)  
 Entomol. Syst. 3(1): 339, no. 290.  
**Original Combination:** *H[esperia]. U[rbicola]. Lucas*  
**Type Locality:** "in Americae meridionalis Insulis Dom. v. Rohr"  
**Types:** Lectotype in ZMUC, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 59.  
 = *sylvicola* (Herrich-Schäffer, 1865)  
 Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 55, no. 13.  
**Original Combination:** [*Goniloba*] *sylvicola*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 59.  
 = *woodruffi* F. Watson, 1937  
 Am. Mus. Novit. (906): 6.  
**Original Combination:** *Panoquina sylvicola woodruffi*  
**Type Locality:** "Aibonito, Puerto Rico"  
**Types:** Holotype in AMNH.
166. **Panoquina hecebolus** (Scudder, 1872)  
 4th Ann. Rep. Peabody Acad. Sci. (1871): 81, no. 3.  
**Original Combination:** *P[renes]. Hecebolus*  
**Type Locality:** "Tehuantepec" [Oaxaca, Mexico]  
**Types:** Syntype (#15312) in MCZ.  
 = *parilis* (Mabille, 1891)  
 Annls. Soc. Entomol. Belg. 35(c.r.) (18): clxxi.  
**Original Combination:** *Pamphila parilis*  
**Type Locality:** "Chiriqui, Honduras" [Panama and Honduras]  
**Types:** Syntypes in ZMHB.
167. **Panoquina evansi** (H. Freeman, 1946)  
 Entomol. News 57(8): 186-187, fig. 2 ♂ genitalia; figured by H. Freeman (1950), Field & Lab. 18(1): fig. 1 ♂ D&V.  
**Original Combination:** *Calpodus evansi*  
**Type Locality:** "Pharr, Texas" [Hidalgo County]  
**Types:** Holotype in AMNH.  
 Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 407, and Scott (1986), Butts. N. Am.: 468, considered this taxon a subspecies of *Panoquina fusina* Hewitson, 1868, Descr. One Hundred new Spec. Hesp. (2): 30, without justification.

### New Tribe

This will be described by A. Warren (*in prep.*).

### Genus *Synapte* Mabille, 1904

- In:* Wytzman, Gen. Ins. (17b): 133. Type-species: *Carystus salenus* Mabille, 1883, Annls. Soc. Entomol. Belg. 27(c.r.) (31): lx-lxi, by monotypy.  
 = ‡*Godmania* Skinner & Ramsden, 1924  
 Proc. Acad. Nat. Sci. Philad. 75: 321. Type-species: *Goniloba malitiosa* Herrich-Schäffer, 1865, Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 54, no. 11, by monotypy. Preoccupied by *Godmania* Horvath, 1919, Ann. Mus. Hungar. 17: 211, 222.
168. **Synapte pecta** Evans, 1955  
 Cat. Am. Hesp. Brit. Mus. (4): 51.  
**Original Combination:** [*Synapte malitiosa*] *pecta*  
**Type Locality:** "Mexico"  
**Types:** Holotype in BMNH.  
 A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, and A. Warren (2000), *in:* Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 555, among other recent authors, considered *pecta* to be a species-level taxon.
169. **Synapte salenus** (Mabille, 1883)  
 Annls. Soc. Entomol. Belg. 27(c.r.) (31): lx-lxi.  
**Original Combination:** *Carystus Salenus*  
**Type Locality:** "Colombie"; this locality was doubted by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 53.  
**Types:** Holotype in BMNH.
170. **Synapte shiva** Evans, 1955  
 Cat. Am. Hesp. Brit. Mus. (4): 53.  
**Original Combination:** [*Synapte syraces*] *shiva*



**Type Locality:** “Dos Arroyas, Guerrero, 1000 feet” [Mexico]

**Types:** Holotype in BMNH.

A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, and A. Warren (2000), *in*: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx. 2: 556, among other recent authors, considered *S. syraes* (Godman, 1901), *in*: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(161): 595-596, no. 3; 3(163): pl. 103, figs. 1 ♂ D, 2 ♂ V, 3 ♂ genitalia, and *S. shiva* to be distinct species-level taxa. Bailowitz and Brock (1991), Butts. SE Ariz.: 72, recorded this species from the United States (as *Synapte syraes shiva*). Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 10, discussed the uncertainty as to which species of *Synapte* the Arizona record represents.

#### Genus *Corticea* Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 46, 63. Type-species: *Hesperia corticea* Plötz, 1882, Stettiner Entomol. Ztg. 44(1-3): 56-57, no. 369, by original designation.

#### 171. *Corticea corticea* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 56-57, no. 369; cited unpublished pl. 591.

**Original Combination:** [*Hesperia*] *Corticea*

**Type Locality:** “Laguayra” [Venezuela]

**Types:** Holotype in ZMHB.

#### New Tribe

This will be described by A. Warren (*in press*).

#### Genus *Amblyscirtes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 75. Type-species: *Hesperia vialis* W. H. Edwards, 1862, Proc. Acad. Nat. Sci. Philad. 14(1/2): 58, no. 8, by original designation. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 386-393, and H. Freeman (1973), J. Lepid. Soc. 27(1): 40-57, arranged this genus into groups. Burns (1990), J. Lepid. Soc. 44(1): 11-27, rearranged some of these groups and commented on the phylogenetic position of the genus.

= *Stomyles* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Pyrgus textor* Hübner, [1831], Zutr. Samml. exot. Schmett. 3: pl. [89], figs. 515, 516; 28, no. 258 (= *Hesperia aesculapius* Fabricius, 1793, Entomol. Syst. 3(1): 347-348, no. 321; synonym), by original designation.

= *Mastor* Godman, 1900

*In*: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 567. Type-species: *Mastor anubis* Godman, 1900, *in*: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 568; 3: pl. 100, figs. 32 ♂ D, 33 ♂ V, 34 ♂ FW venation, 35 ♂ genitalia, by original designation.

= *Epiphyes* Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 132. Type-species: *Pamphila carolina* Skinner, 1892, Entomol. News 3(9): 222-223, by original designation.

exoteria group Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 386.

#### 172. *Amblyscirtes exoteria* (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 196, no. 54.

**Original Combination:** [*Goniloba*] *exoteria*

**Type Locality:** Not stated.

**Types:** Holotype in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz (pl. 572).

= *nanno* W. H. Edwards, 1882

Papilio 2(8): 142-143.

**Original Combination:** *Amblyscirtes Nanno*

**Type Locality:** “Fort Grant and in Graham Mountains, Arizona” implied from the title of the paper. [Graham County]

**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 55, fig. 20 ♀ D&V.

= *marcus* (Strand, 1909)

Int. Entomol. Z. 3(33): 176.

**Original Combination:** *Chapra marcus*

**Type Locality:** “Delagoa Bai” [Africa], an obvious error.

**Types:** Holotype in ZMHB.

#### 173. *Amblyscirtes cassus* W. H. Edwards, 1883

Papilio 3(4): 72-73.

**Original Combination:** *Amblyscirtes Cassus*

**Type Locality:** “Mt. Graham, Arizona” [Graham County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 363, pl. 51, fig. 31 ♂ D, as “type”; figured by

- F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 52, fig. 18 ♂ D&V.
174. **Amblyscirtes aenus** W. H. Edwards, 1878
- a. **Amblyscirtes aenus erna** H. Freeman, 1943  
Entomol. News 54(1): 17-18.  
**Original Combination:** *Amblyscirtes erna*  
**Type Locality:** "Palo Duro Canyon, Texas" [Armstrong County]  
**Types:** Holotype in AMNH.  
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 388, considered *erna* a synonym of *Amblyscirtes fluonia* Godman, 1900. Scott [1977], J. Res. Lepid. 15(2): 92, demonstrated that this taxon is conspecific with *A. aenus*.
- b. **Amblyscirtes aenus aenus** W. H. Edwards, 1878  
Field & Forest 3(7/8): 118.  
**Original Combination:** *Amblyscirtes Aenus*  
**Type Locality:** "Southern Colorado"; defined as "Hardscrabble Road, Pueblo County, Colorado, in the foothills of the Wet Mountains" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 51.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 51, fig. 17 ♂ D&V.
- c. **Amblyscirtes aenus megamacula** Scott, 1998  
Papilio (n.s.) 11: 6, fig. 13 ♂ D (holotype), 14 ♀ D.  
**Original Combination:** *Amblyscirtes aenus megamacula*  
**Type Locality:** "WSW Peña Blanca Lake, Santa Cruz Co. Ariz."  
**Types:** Holotype in BMNH.
175. **Amblyscirtes linda** H. Freeman, 1943  
Entomol. News 54(1): 19.  
**Original Combination:** *Amblyscirtes linda*  
**Type Locality:** "Hope Hill Farm, Faulkner Co., Arkansas"  
**Types:** Holotype in AMNH.
176. **Amblyscirtes osleri** (Skinner, 1899)  
Entomol. News 10(5): 112.  
**Original Combination:** *Pamphila osleri*  
**Type Locality:** "Chimney Gulch, Colorado" [Jefferson County]  
**Types:** Syntype (#7101) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 39 ♀ D.
- aesculapius group Evans, 1955  
Cat. Am. Hesp. Brit. Mus. (4): 388.
- \*177. **Amblyscirtes elissa** Godman, 1900  
*In:* Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 505, no. 4; 3: pl. 95, figs. 40 ♀ V, 41 ♂ genitalia.  
**Original Combination:** *Amblyscirtes elissa*  
**Type Locality:** "Mexico, Tierra Colorada, Rincon, Dos Arroyos, all in Guerrero"  
**Types:** Syntypes in BMNH.
- a. **Amblyscirtes elissa arizonae** H. Freeman, 1993  
Ann. Carnegie Mus. 62(4): 345-346, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Amblyscirtes elissa arizonae*  
**Type Locality:** "United States. Arizona: Santa Cruz Co., 0.5 mi W Kino Springs"  
**Types:** Holotype in CMNH.
178. **Amblyscirtes hegon** (Scudder, 1863)  
Proc. Essex Inst. 3: 176, no. 77.  
**Original Combination:** *Hesperia Hego*  
**Type Locality:** "White Mountains" [New Hampshire]  
**Types:** Holotype (#8973) in MCZ.  
As first reviser, W. F. Kirby (1871), Syn. Cat. diurn. Lepid.: 613, no. 16, selected *hegon* over *samoset* on the basis of line priority; Scudder applied the names *hegon* to the female and *samoset* to the male.  
= *samoset* (Scudder, 1863)  
Proc. Essex Inst. 3: 176-177, no. 78; figured by Scudder (1889), Butts. E. U. S. & Can. 3(10): pl. 10, fig. 1 ♀ D&V.  
**Original Combination:** *Hesperia Samoset*  
**Type Locality:** "Mass. and N. H." [Massachusetts and New Hampshire]  
**Types:** Syntypes (#8974) in MCZ.  
= *nemoris* (W. H. Edwards, 1864)  
Proc. Entomol. Soc. Philad. 2(4): 501, 507, no. 10; 4[1]: pl. 1, fig. 1 ♂ D&V.  
**Original Combination:** *Hesperia Nemoris*  
**Type Locality:** "Portsmouth, Ohio"; neotype from "3 miles east of Zaleski, Vinton County, Ohio, some 50 miles NE of Portsmouth."  
**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 50, fig. 16 ♂ D&V.  
= *argina* (Plötz, 1884)  
Mitt. naturw. Ver. Neu-Vorpomm. 15: 22, no. 60.  
**Original Combination:** [*Pyrgus (Syrrichthus)*] *Argina*  
**Type Locality:** "Brisbane" [Australia], in error.

**Types:** Type(s) may be in ZSMC or lost.

179. **Amblyscirtes texanae** E. Bell, 1927  
Bull. Brooklyn Entomol. Soc. 22(4): 203.  
**Original Combination:** *Amblyscirtes texanae*  
**Type Locality:** "vicinity of Alpine, Brewster County, Texas"  
**Types:** Holotype in AMNH.
  180. **Amblyscirtes carolina** (Skinner, 1892)  
Entomol. News 3(9): 222-223.  
**Original Combination:** *Pamphila carolina*  
**Type Locality:** "about one-half mile south of Hamlet, Richmond County, North Carolina, on the border of a small cane brake"  
**Types:** Syntypes (#7096) in ANSP; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 36 ♂ D.
  181. **Amblyscirtes reversa** F. Jones, 1926  
Entomol. News 37(7): 197-198, pl. 9, figs. 3 ♂ D, 3a ♂ V, 4 ♀ V.  
**Original Combination:** *Amblyscirtes carolina reversa*  
**Type Locality:** "Suffolk, Virginia" [Nansemond County]  
**Types:** Holotype (#7169) in ANSP.
  182. **Amblyscirtes aesculapius** (Fabricius, 1793)  
Entomol. Syst. 3(1): 347-348, no. 321; cited Jones' Icones 6: pl. 29, fig. 4 D&V.  
**Original Combination:** *H[esperia]. U[rbicola]. Aesculapius*  
**Type Locality:** "in America boreali Dom. Jones"  
**Types:** Type(s) probably lost.  
This species was widely known as *A. textor* (Hübner, [1831]), until Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 390, replaced *textor* with *aesculapius*, a senior, but obscure, generally unused name.  
= *textor* (Hübner, [1831])  
Zutr. Samml. exot. Schmett. 3: pl. [89], figs. 515 ♀ D, 516 ♀ V [1824]; 28, no. 258 [1831, name given].  
**Original Combination:** *Pyrgus Textor*  
**Type Locality:** "United States"  
**Types:** Type(s) probably lost.  
= *oneko* (Scudder, 1863)  
Proc. Essex Inst. 3: 176, no. 76.  
**Original Combination:** *Hesperia Oneko*  
**Type Locality:** "Connecticut"  
**Types:** Type(s) may be in MCZ.  
= *wakulla* (W. H. Edwards, 1869)  
Trans. Am. Entomol. Soc. 2(3): 311.  
**Original Combination:** *Hesperia Wakulla*  
**Type Locality:** "Apalachicola, Florida" [Franklin County]  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 49, fig. 15 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 47, fig. 16 ♂ D.
- vialis group Evans, 1955  
Cat. Am. Hesp. Brit. Mus. (4): 390.
183. **Amblyscirtes nereus** (W. H. Edwards, 1876)  
Trans. Am. Entomol. Soc. 5(3/4): 207.  
**Original Combination:** *Hesperia Nereus*  
**Type Locality:** "South Apache"; defined as "between Camp Apache and the Gila River" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 47. [Navajo-Apache counties, Arizona]  
**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 47, fig. 14 ♂ D&V.  
This name was listed as "[*Pamphila*] *nereus*", without a description or indication, by W. H. Edwards (1875), in: Mead, Rep. Coll. diurn. Lepid. 5(Zool.): 794; a *nomen nudum*.
  184. **Amblyscirtes nysa** W. H. Edwards, 1877  
Can. Entomol. 9(10): 191-192.  
**Original Combination:** *Amblyscirtes nysa*  
**Type Locality:** "Texas"; lectotype from "Clifton, Bosque County, Texas."  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 46, fig. 13 ♀ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 25 ♀ D.  
= *similis* (Strecker, [1878])  
Lepid. Rhop. Het. (14): 131.  
**Original Combination:** *Pamphila Similis*  
**Type Locality:** Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]  
**Types:** Syntypes in FMNH.
  185. **Amblyscirtes eos** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 266, 276-277, no. 20.  
**Original Combination:** *Hesperia Eos*



**Type Locality:** "Dallas, Texas" [Dallas County]

**Types:** Lectotype (#8972) in MCZ, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 42-43, fig. 10 ♂ D&V.

= *comus* (W. H. Edwards, 1876)

Trans. Am. Entomol. Soc. 5(3/4): 206-207.

**Original Combination:** *Hesperia Comus*

**Type Locality:** "Texas"; neotype from "Archer County, Texas."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 44, fig. 11 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 27 ♂ D.

= *nilus* W. H. Edwards, 1878

Field & Forest 3(7/8): 118-119.

**Original Combination:** *Amblyscirtes Nilus*

**Type Locality:** "Texas"; defined as "Archer Co., Texas" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 44.

**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 45, fig. 12 ♂ D&V.

= *quinquemacula* (Skinner, 1911)

Entomol. News 22(9): 413.

**Original Combination:** *Pamphila quinquemacula*

**Type Locality:** "Las Cruces, New Mexico" [Dona Ana County]

**Types:** Holotype (#7107) in ANSP.

186. **Amblyscirtes vialis** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 58, no. 8.

**Original Combination:** *Hesperia vialis*

**Type Locality:** "Rock Island, Illinois; Lake Winnipeg"; neotype from "Perryton Twp., Mercer Co., Illinois."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 41, fig. 9 ♂ D&V.

= *asella* (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 203, no. 66.

**Original Combination:** [*Cobalus*] *asella*

**Type Locality:** Not stated.

**Types:** Type(s) probably in ZMHB.

187. **Amblyscirtes alternata** (Grote & Robinson, 1867)

Trans. Am. Entomol. Soc. 1(1): 3-4.

**Original Combination:** *Hesperia alternata*

**Type Locality:** "Atlantic District. (Georgia!)"

**Types:** Holotype may be in NYSM or AMNH.

= *meridionalis* Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 135.

**Original Combination:** *A[mblyscirtes]. meridionalis*

**Type Locality:** "Georgia and Florida"

**Types:** Syntypes may be in AMNH and/or USNM.

tolteca group Burns, 1990

J. Lepid. Soc. 44(1): 15, 18.

188. **Amblyscirtes celia** Skinner, 1895

Entomol. News 6(4): 113-114.

**Original Combination:** *Amblyscirtes celia*

**Type Locality:** "Blanco, Comal and Nueces Counties, Texas"

**Types:** Syntype (#7095, labeled as "holotype", from "New Braunfels, Tex.") in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 30 ♂ D.

189. **Amblyscirtes belli** H. Freeman, 1941

Entomol. News 52(2): 50-51.

**Original Combination:** *Amblyscirtes belli*

**Type Locality:** "Lancaster and two miles west of Vickery, Dallas County, Texas"

**Types:** Holotype in AMNH.

\*190. **Amblyscirtes tolteca** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 76, no. 3.

**Original Combination:** *A[mblyscirtes]. Tolteca*

**Type Locality:** "Tehuantepec" [Oaxaca, Mexico]

**Types:** Syntype (#15322) in MCZ.

a. **Amblyscirtes tolteca prenda** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 389.

**Original Combination:** [*Amblyscirtes tolteca*] *prenda*

**Type Locality:** "Tucson, Arizona" [Pima County]

**Types:** Holotype in BMNH.

H. Freeman (1993), Ann. Carnegie Mus. 62(4): 343, detailed the subspecies-level status of this taxon.

phylace group Evans, 1955  
Cat. Am. Hesp. Brit. Mus. (4): 392.

191. **Amblyscirtes phylace** (W. H. Edwards, 1878)  
Field & Forest 3(7/8): 117-118.  
**Original Combination:** *Pamphila Phylace*  
**Type Locality:** "Southern Colorado"; defined as "foothills of the Wet Mountains in Pueblo County, Colorado, probably along Hardscrabble Road" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 40.  
**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 39, fig. 8 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 32 ♂ D.
192. **Amblyscirtes fimbriata** (Plötz, 1882)  
a. **Amblyscirtes fimbriata fimbriata** (Plötz, 1882)  
Stettiner Entomol. Ztg. 43(7-9): 322, no. 49; cited unpublished pl. 301.  
**Original Combination:** [*Hesperia*] *Fimbriata*  
**Type Locality:** "Mexico"  
**Types:** Holotype (#5649) in ZMHB.  
= *bellus* (W. H. Edwards, 1884)  
Papilio 4(3): 57.  
**Original Combination:** *Pamphila Bellus*  
**Type Locality:** "southern Arizona"; suggested to be "vicinity of Tucson, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 39. [Pima County]  
**Types:** Holotype (#33625) in USNM; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 38, fig. 7 ♂ D&V.  
*Amblyscirtes fimbriata* is currently only known in Arizona from Cochise County, as noted by Bailowitz and Brock (1991), Butts. SE Ariz.: 103.

#### Genus **Vidius** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 121. Type-species: *Narga vidius* Mabille, 1891, Anns. Soc. Entomol. Belg. 35(c.r.) (16): lxx, by original designation.

193. **Vidius perigenes** (Godman, 1900)  
*In:* Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 569, no. 3; 3: pl. 100, figs. 37 ♂ D, 38 ♂ V.  
**Original Combination:** *Mastor perigenes*  
**Type Locality:** "Mexico, Rincon in Guerrero"  
**Types:** Syntype(s) in BMNH.

#### Genus **Monca** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 124. Type-species: *Cobalus telata* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 201, no. 43, by original designation.

194. **Monca crispinus** (Plötz, 1882)  
Stettiner Entomol. Ztg. 43(7-9): 318, no. 25; cited unpublished pl. 277.  
**Original Combination:** [*Hesperia*] *Crispinus*  
**Type Locality:** "Mexico"  
**Types:** Holotype (# 5306) in ZMHB.  
Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 57, determined this synonymy.  
= *tyrtaeus* (Plötz, 1882)  
Stettiner Entomol. Ztg. 44(1-3): 51, no. 348; cited unpublished pl. 581.  
**Original Combination:** [*Hesperia*] *Tyrtaeus*  
**Type Locality:** "Laguayra" [Venezuela]  
**Types:** Lectotype in EMAU, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 57.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, treated this taxon as a synonym of *Megistias telata* Herrich-Schäffer, 1869, Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 201, based on an examination of the unpublished drawing made by Plötz; Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 124, concurred. However, E. Bell (1941), Entomol. News 52(7): 183-185, demonstrated that *M. telata* and *M. tyrtaeus* are distinct species-level taxa, and Austin *et al.* (1996), Tropical Lepid. 7(1): 25, corroborated this.

#### Genus **Nastra** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 87, 125. Type-species: *Hesperia lherminier* Latreille, [1824], *in:* Ency. méth. 9(Ins.) (2): (725), 777-778, no. 135, by original designation.

195. **Nastra lherminier** (Latreille, [1824])  
*In:* Ency. méth. 9(Ins.) (2): (725), 777-778, no. 135.  
**Original Combination:** *Hesperia lherminier*  
**Type Locality:** "de la Caroline"

**Types:** Type(s) probably lost; N. Riley (1926), Trans. Entomol. Soc. Lond. 74(2): 240, noted that the type was not in the MNHP. The specific name as given is in accordance with Code Articles 27 and 32. The emendation of the name to "*therminieri*" is unjustified, regardless of the authorship.

= *fusca* (Grote & Robinson, 1867)  
Trans. Am. Entomol. Soc. 1(1): 2-3.

**Original Combination:** *Hesperia fusca*

**Type Locality:** "Atlantic District (Georgia!...Florida!)"

**Types:** Syntype in AMNH.

196. ***Nastra neamathla*** (Skinner & R. Williams, 1923)

Trans. Am. Entomol. Soc. 49(2): 145-146, no. 33, fig. 33 ♂ genitalia.

**Original Combination:** *Lerodea neamathla*

**Type Locality:** "Central Florida"

**Types:** Holotype (#7109) in ANSP; a paratype was figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 17 ♂ V.

197. ***Nastra julia*** (H. Freeman, 1945)

Entomol. News 56(8): 203, fig. 1 ♂ genitalia.

**Original Combination:** *Lerodea julia*

**Type Locality:** "Pharr, Texas" [Hidalgo County]

**Types:** Holotype in AMNH.

= *hoffmanni* (E. Bell, 1947)

Am. Mus. Novit. (1354): 8, fig. 10 ♂ genitalia.

**Original Combination:** *Lerodea hoffmanni*

**Type Locality:** "Colima, Mexico"

**Types:** Holotype in AMNH.

#### Genus *Cymaenes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Cobalus tripunctus* Herrich-Schäffer, 1865, Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 53, no. 1, by original designation.

= *Megistias* Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 571. Type-species: *Hesperia tripunctata* Latreille, [1824], Ency. méth. 9(Ins.) (2): 752, no. 62[a], by original designation.

198. ***Cymaenes tripunctus*** (Herrich-Schäffer, 1865)

a. ***Cymaenes tripunctus tripunctus*** (Herrich-Schäffer, 1865)

Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 53, no. 1.

**Original Combination:** *Cobalus tripunctus*

**Type Locality:** "Cuba" implied from the title of the paper.

**Types:** Syntype (#7114) in ANSP.

= *jamaca* (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 452.

**Original Combination:** *Megistias jamaca*

**Type Locality:** "Jamaica, British West Indies"

**Types:** Holotype (#6050) in USNM.

= *"sinepunctis"* (Avinoff & Shoumatoff, 1946)

Ann. Carnegie Mus. 30(16): 293, no. 113.

**Original Combination:** *Lerodea tripuncta sinepunctis* ab. nov.

**Type Locality:** "Cave River" [Clarendon Parish, St. Ann, Jamaica]

**Types:** "Holotype" in CMNH; figured by Mielke (1989), Revta. bras. Entomol. 33(2): figs. 7-11 ♂ genitalia, figs. 21, 22 ♂ D&V.

199. ***Cymaenes trebius*** (Mabille, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.) (18): clxxiv.

**Original Combination:** *Pamphila Trebius*

**Type Locality:** "Bogota" [Colombia]

**Types:** Holotype in ZMHB.

A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 53, A. Warren (2000), in: Llorente *et al.*, Biodivers. Taxon. Biogeogr. Artrópod. Méx. 2: 557, and other recent authors, considered *C. trebius* to be a species-level taxon.

= *isus* (Godman, 1900)

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(160): 574, no. 5; 3(162): pl. 101, figs. 9 ♂ D, 10 ♂ V, 11 ♂ genitalia.

**Original Combination:** *Megistias isus*

**Type Locality:** "Mexico, Acapulco, Dos Arroyos, Rio Papagaio, Venta de Zopilote, Tierra Colorada, Cuernavaca, Atoyac, Fortin, Teapa...Misantla, Jalapa...Orizaba...Paso de San Juan...Guatemala...Nicaragua, Chontales...Costa Rica, Caché, San Francisco...Venezuela; Guiana"

**Types:** Syntypes in BMNH.

#### Genus *Lerodea* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia eufala* W. H. Edwards, 1869, Trans. Am. Entomol. Soc. 2(3): 311-312,



by original designation.

200. **Lerodea eufala** (W. H. Edwards, 1869)

a. **Lerodea eufala eufala** (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(3): 311-312.

**Original Combination:** *Hesperia Eufala*

**Type Locality:** "Apalachicola, Florida"; neotype from "Ind[ian]. River." [Brevard and Volusia counties]

**Types:** Neotype (possibly lectotype) in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 58, fig. 22 ♂ D&V.

= *dispersa* (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 197, no. 56.

**Original Combination:** [*Goniloba*] *dispersa*

**Type Locality:** Not stated.

**Types:** Syntype in ANSP.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 142, determined this synonymy through an examination of the unpublished drawing (pl. 541) made by Plötz.

= *floridæ* (Mabille, 1876)

Annls. Soc. Entomol. Fr. (5)6(2): 269, no. 16; (bull.): ix, no. 6, referring to p. 269.

**Original Combination:** *Pamphila Floridæ*

**Type Locality:** "E. Florida" "Floride, Texas"

**Types:** Type(s) probably in MNHP.

= *micylla* (Burmeister, 1878)

Descr. phys. Rép. Argentine 5(Lépid.) (1): 272-273, no. 7.

**Original Combination:** *Carystus Micylla*

**Type Locality:** "Buénos-Ayres" [Buenos Aires, Argentina]

**Types:** Syntype in MACN.

‡"obscura" Lindsey, E. Bell & R. Williams, 1931

Denison Univ. Bull. 31(2), J. Sci. Lab. 26(1): 134; cited Mabille (1904), in: Wytzman, Gen. Ins. (17b): 131.

**Original Combination:** *Lerodea eufala floridæ* var. *obscura*

This name was inadvertently proposed by Lindsey *et al.*, who erroneously believed that it had been described by Mabille; a *nomen nudum*.

201. **Lerodea arabus** (W. H. Edwards, 1882)

Papilio 2(2): 26.

**Original Combination:** *Pamphila Arabus*

**Type Locality:** "southern Arizona"; suggested to be "vicinity of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 56; neotype from "Sabino Canyon, Santa Catalina Mts., Pima Co., Arizona, 2900'."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 57, fig. 21 ♂ D&V.

= *dysaules* Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 500, no. 2; 3(158): pl. 95, figs. 19 ♂ D, 20 ♂ V (lectotype).

**Original Combination:** *Lerodea dysaules*

**Type Locality:** "Mexico, Venta de Zopilote in Guerrero"

**Types:** Lectotype in BMNH, designated by A. Warren and Mielke (2005), Revta. bras. Zool. 22(1): 288.

A. Warren and Mielke (2005), Revta. bras. Zool. 22(1): 285-288, determined this synonymy, though others have suggested it (e.g., Scott (1986), Butts. N. Am.: 465).

Genus **Lerema** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Papilio accius* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 45, pl. 23, by original designation.

= *Sarega* Mabille, 1904

In: Wytzman, Gen. Ins. (17b): 133. Type-species: *Sarega staurus* Mabille, 1904, in: Wytzman, Gen. Ins. (17b): 133, by monotypy.

202. **Lerema accius** (J. E. Smith, 1797)

In: Smith and Abbot, Ins. Georgia 1: 45-46, pl. 23, figs. ♂ D, ♂ V, ♀ D, larva, pupa.

**Original Combination:** *Papilio Accius*

**Type Locality:** "Georgia" implied from the notes to the original drawing by John Abbot.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost.

= *monoco* (Scudder, 1863)

Proc. Essex Inst. 3: 178, no. 80.

**Original Combination:** *Hesperia Monoco*

**Type Locality:** "southern portions; Conn....Mass." [Connecticut and Massachusetts]

**Types:** Syntypes (#15304) in MCZ.

= *punctella* (Grote & Robinson, 1867)

Trans. Am. Entomol. Soc. 1(1): 1.

**Original Combination:** *Hesperia punctella*

**Type Locality:** "Atlantic District (Georgia!)"

**Types:** Holotype in MCZ.

= *nortonii* (W. H. Edwards, 1867)

Trans. Am. Entomol. Soc. 1(3): 286, 287-288, no. 4.

**Original Combination:** *Hesperia Nortonii*

**Type Locality:** "New Orleans" [Orleans Parish, Louisiana]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 266, fig. 4 ♂ D&V.

= *parumpunctata* (Herrich-Schäffer, 1869)

Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 196, no. 52.

**Original Combination:** [*Goniloba*] *parumpunctata*

**Type Locality:** Not stated.

**Types:** Syntypes in ZMHB.

= *pattenii* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82, no. 3.

**Original Combination:** *L[erema]*. *Pattenii*

**Type Locality:** "Guatemala"

**Types:** Holotype (#15318) in MCZ.

= *phocylides* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 52, no. 350; cited unpublished pl. 578.

**Original Combination:** [*Hesperia*] *Phocylides*

**Type Locality:** "Laguayra" [Venezuela]

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz.

‡"curtius" Scudder, 1889

Butts. E. U. S. & Can. 2(11): 1768.

**Original Combination:** [*Lerema accius*] = *Hesperia curtius* Abb.

This name was mentioned in the synonymy of *Lerema accius* without a description or indication; a *nomen nudum*.

‡"chamis" Scudder, 1889

Butts. E. U. S. & Can. 2(11): 1768.

**Original Combination:** [*Lerema accius*] = *Hesperia chamis* Boisd. manuscript

Proposed for a Boisduval manuscript name without a description or indication; a *nomen nudum*.

203. **Lerema liris** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 164.

**Original Combination:** [*Lerema ancillaris*] *liris*

**Type Locality:** "Mexico, Atoyac, Vera Cruz" [Veracruz]

**Types:** Holotype in BMNH.

This was considered a species-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 29, 210, note 82, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 54, and other recent authors.

#### Genus *Vettius* Godman, 1901

*In:* Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(161): 589. Type-species: *Papilio phyllus* Cramer, 1777, Uitl. Kapellen 2(15): 122, pl. 176, figs. B, C; (16): 150 (index), by original designation.

204. **Vettius fantasos** (Cramer, 1780)

Uitl. Kapellen 4(25): 20, pl. 300, figs. E ♂ D, F ♂ V; (34): 249 (index).

**Original Combination:** *Pap[ilio]*. *Pleb[ejus]*. *Urb[icola]*. *Fantasos*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

= *abebalus* (Stoll, 1781)

Uitl. Kapellen 4(31): 145, pl. 365, figs. G ♂ D, H ♂ V; (34): 247 (index).

**Original Combination:** *Pap[ilio]*. *Pleb[ejus]*. *Urb[icola]*. *Abebalus*

**Type Locality:** "Kust van Guiné en aan de Kaap de Goede Hoop" "Côte de Guinée & au Cap de Bonne Espérance", in error.

**Types:** Type(s) probably lost.

= *eucherus* (Plötz, 1882)

Stettiner Entomol. Ztg. 43(10-12): 452, no. 210; cited unpublished pl. 445, and *Papilio fantasos* (*sensu* Sepp [1847], pl. 82) Surinaam. Vlinders [2](21): pl. 82.

**Original Combination:** [*Hesperia*] *Eucherus*

**Type Locality:** "Surinam"

**Types:** Type(s) in ZSMC.

This name was probably proposed as a replacement for *Papilio fantasos* (Cramer, 1780), thus a junior objective synonym. Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 140, determined this synonymy through an examination of the unpublished drawing made by Plötz.

#### Genus *Rhithon* Godman, 1900

*In:* Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 530. Type-species: *Proteides chiriquensis* Mabille, 1889, Naturaliste (2)3(53):

127, fig. 1 (= *Hesperia osca* Plötz, 1882, Stettiner Entomol. Ztg. 44(1-3): 48, no. 334; synonym), by original designation.

205. **Rhinthon osca** (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 48, no. 334; cited unpublished pl. 537 (557 in BMNH collection).

**Original Combination:** [*Hesperia*] *Oscas*

**Type Locality:** "Caracas" [Venezuela]

**Types:** Holotype (#5219) in ZMHB.

This was considered a species-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 30, 210, note 84, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 54, A. Warren (2000), in: Llorente *et al.*, Biodiver. Taxon. Biogeogr. Artrópod. Méx.2: 558, and other recent authors.

= *cabella* (Plötz, 1886)

Stettiner Entomol. Ztg. 47(1-3): 96-97, no. 315e; cited unpublished pl. 1419.

**Original Combination:** [*Hesperia*] *Cabella*

**Type Locality:** "Porto Cabello" [Venezuela]

**Types:** Type(s) may be in ZMHB or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 152, determined this synonymy (as *chiriquensis*) through an examination of the unpublished drawing made by Plötz.

= *chiriquensis* (Mabille, 1889)

Naturaliste (2)3(53): 127, fig. 1 ♂ D&V.

**Original Combination:** *Proteides Chiriquensis*

**Type Locality:** "Chiriqui" [Panama]

**Types:** Holotype in ZMHB.

= *biserta* (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 460.

**Original Combination:** *Thracides Biserta*

**Type Locality:** "Trinidad"

**Types:** Holotype (#6073) in USNM.

Tribe **Hesperiini** Latreille, 1809

Genus **Decinea** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 266, 286. Type-species: *Hesperia decinea* Hewitson, 1876, Ann. Mag. Nat. Hist. (4)18(108): 452, by original designation.

206. **Decinea percosius** (Godman, 1900)

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(159): 536, no. 4; 3(158): pl. 95, figs. 22 ♂ D, 23 ♂ V, 24 ♂ genitalia.

**Original Combination:** *Cobalus percosius*

**Type Locality:** "Mexico, Atoyac...Guatemala, Zapote...Panama, Chiriqui [Mus Staudinger]"; a specimen from Atoyac was figured. [Atoyac, Veracruz, Mexico]

**Types:** Syntypes in BMNH.

Genus **Oligoria** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 82. Type-species: *Hesperia maculata* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4[1]: 201, 202, pl. 1, fig. 6, by original designation.

207. **Oligoria maculata** (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201, 202, pl. 1, fig. 6 ♀ D&V.

**Original Combination:** *Hesperia maculata*

**Type Locality:** "New Orleans"; neotype from "Edgard, St. John the Baptist Parish, Louisiana."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 59, fig. 23 ♀ D&V.

= *deleta* (Herrich-Schäffer, 1869)

Corresp-Bl. zool.-min. Ver. Regensburg 23(12): 202, no. 54.

**Original Combination:** [*Cobalus*] *deleta*

**Type Locality:** Not stated.

**Types:** Type(s) may be in NMW.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 141, determined this synonymy through an examination of the unpublished drawing (pl. 507) made by Plötz.

= *grossula* (Herrich-Schäffer, 1869)

Corresp-Bl. zool.-min. Ver. Regensburg 23(12): 202, no. 56.

**Original Combination:** [*Cobalus*] *grossula*

**Type Locality:** Not stated.

**Types:** Type(s) may be in NMW.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 141, determined this synonymy through an examination of the unpublished drawing (pl. 507) made by Plötz.

= *norus* (Plötz, 1882)



Stettiner Entomol. Ztg. 44(1-3): 36, no. 268; cited unpublished pl. 518.

**Original Combination:** [*Hesperia*] *Norus*

**Type Locality:** "New-Orleans" [Louisiana]

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 142, determined this synonymy through an examination of the unpublished drawing made by Plötz.

‡*orthomenes* Scudder, 1889

Butts. E. U. S. & Can. 2(11): 1761.

**Original Combination:** [*Oligoria maculata*] = *Hesperia orthomenes*

Scudder mentioned "*Hesperia orthomenes* Boisduval manuscript" in the synonymy of this species without a description or indication; a *nomen nudum*.

#### Genus *Conga* Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 266, 294. Type-species: *Pamphila chydaea* Butler, 1877, Trans. Entomol. Soc. Lond. (4)1877[25](2): 152, no. 259, by original designation.

#### 208. *Conga chydaea* (Butler, 1877)

Trans. Entomol. Soc. Lond. (4)1877[25](2): 152, no. 259.

**Original Combination:** *Pamphila chydaea*

**Type Locality:** "Serpa, in the bush" [Amazonas, Brazil]

**Types:** Holotype in BMNH.

= *valo* (Mabille, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxv.

**Original Combination:** *Pamphila Valo*

**Type Locality:** "Bogota" [Colombia]

**Types:** Holotype probably in MNHP.

= *vala* (Mabille, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxvi.

**Original Combination:** *Pamphila Vala*

**Type Locality:** "Chiriqui" [Panama]

**Types:** Holotype probably in ZMHB.

= *actor* (Mabille, 1891)

Annls. Soc. Entomol. Belg. 35(c.r.)(18): clxxxii.

**Original Combination:** *Pamphila Actor*

**Type Locality:** "Chiriqui" [Panama]

**Types:** Types in ZMHB.

#### Genus *Hylephila* Billberg, 1820

Enum. Ins. Mus. Billb.: 81. Type-species: *Papilio phyleus* Drury, 1773, Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4, 5; 2: index, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 193, no. 544.

= ‡*Euthymus* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Papilio phyleus* Drury, 1773, Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4, 5; 2: index, by original designation. Preoccupied by *Euthymus* Rafinesque, 1815, Analyse Nat.: 127, and also a junior objective synonym of *Hylephila*.

= *Andinus* Hayward, 1940

Revta. Soc. Entomol. Argent. 10(3): 284-285. Type-species: *Andinus venustus* Hayward, 1940, Revta. Soc. Entomol. Argent. 10(3): 285-286, fig. 9, by original designation.

= ‡*Cordillana* Hayward, 1941

Revta. Mus. La Plata, Zool. (n.s.)2(14): 288. Type-species: *Andinus venustus* Hayward, 1940, Rev. Soc. Entomol. Argent. 10: 285, as replacement name; proposed to replace *Andinus* Hayward, 1940, erroneously thought preoccupied.

phyleus group MacNeill & Herrera, 1999

J. Lepid. Soc. 52(3): 285 (key), 286-287.

#### 209. *Hylephila phyleus* (Drury, 1773)

a. *Hylephila phyleus phyleus* (Drury, 1773)

Ill. Nat. Hist. 1: 25-26, pl. 13, figs. 4 ♂ D, 5 ♂ V (1770); 2: index (1773, name given).

**Original Combination:** *Papilio Phyleus*

**Type Locality:** "Antigua, St. Christopher's, Nevies"; suggested to be "Antigua" by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 311.

**Types:** Type(s) probably lost.

Panzer (1785), Diurn. Abbild.: 59, pl. 13, figs. 4, 5, misidentified this species as *Papilio phareus* Fabricius, 1793, a name that has sometimes been listed in the synonymy of *H. phyleus*. Likewise, Hübner (1823), Zutr. Samml. exot. Schmett. 2: 11, listed "*Hesperia carin*" in the synonymy of *Phemiades augias* Linnaeus, 1763 *sensu* Hübner, which included *H. phyleus*; this is a *nomen nudum* and a misidentification of *phyleus*.

- = *phryni* A (Megerle, [1803])  
Cat. insect. Viennae Austriae 28 Novembris 1803, auctionis: [29].  
**Original Combination:** *Papilio Druryi*  
Proposed to replace *Papilio phyleus* Drury, 1773, erroneously thought pre-occupied. I.C.Z.N. *Opinion 1710* placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*.
- = *bucephalus* (Stephens, 1828)  
Ill. Brit. Entomol., Haustellata 1: 102-103, pl. 10, figs. 1, 2.  
**Original Combination:** [*Pamphila*] *Bucephalus*  
**Type Locality:** "neighborhood of Barnstable in Devonshire [England]"; but suggested to be "from the North American continent" later in the original description.  
**Types:** Location of syntypes not known.
- = *hala* (Butler, 1870)  
Trans. Entomol. Soc. Lond. (4)1870[18] (4): 504, no. 2.  
**Original Combination:** *Pamphila Hala*  
**Type Locality:** "Venezuela"  
**Types:** Holotype in BMNH.
- = *muertovalle* Scott, 1981  
Papilio (n.s.) 1: 10.  
**Original Combination:** *Hylephila phyleus muertovalle*  
**Type Locality:** "Furnace Creek date grove, Death Valley, Inyo Co., Calif." [California]  
**Types:** Holotype in LACM.  
The utility of this name as a trinomial seems questionable.
- = *eureka* Austin & J. Emmel, 1998  
Syst. W. N. Am. Butts. (42): 502, figs. 3 ♂ D, 4 ♂ V (holotype); 5 ♀ D, 6 ♀ V.  
**Original Combination:** *Hylephila phyleus eureka*  
**Type Locality:** "California: Humboldt County; Eureka"  
**Types:** Holotype in LACM.  
As discussed by Pyle (2002), Butts. Cascadia: 70, the utility of this name as a trinomial seems questionable.
- = *pallida* Hayward, 1944  
Revta. Soc. Entomol. Argent. 12(3): 180.  
**Original Combination:** *Hylephila phyleus* ab. *pallida*  
**Type Locality:** "Tucuman" [Argentina]  
**Types:** Holotype in IMLA (Hayward collection).

**Genus *Pseudocopaeodes* Skinner & R. Williams, 1923**

Trans. Am. Entomol. Soc. 49(2): 137. Type-species: *Copaeodes eunus* W. H. Edwards, 1881, *Papilio* 1(4): 47, no. 5, by original designation.

**210. *Pseudocopaeodes eunus* (W. H. Edwards, 1881)**

**a. *Pseudocopaeodes eunus eunus* (W. H. Edwards, 1881)**

*Papilio* 1(4): 43, 47, no. 5.

**Original Combination:** *Copaeodes eunus*

**Type Locality:** "Mt. Hood"; corrected to "the bottoms of Kern River, near Bakersfield, Cal." by Morrison (1883), *Papilio* 3(2): 43. [Kern County, California]

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 73, fig. 6 ♂ V, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 277, fig. 12 ♂ D&V.

= *wrightii* (W. H. Edwards, 1882)

Can. Entomol. 14(8): 152.

**Original Combination:** *Copaeodes Wrightii*

**Type Locality:** "Mohave Desert, So. California...over a pass 6,000 feet high...on the high dry plain...for 20 miles to Mohave River. About 60 rods from the river"; defined as "near Victorville, San Bernardino Co., Calif." by Scott (1981), *Papilio* (n.s.) 1: 11.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 278, fig. 13 ♂ D&V; a paralectotype figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 47, fig. 10 ♂ D.

This was treated as a subspecies-level taxon by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 211, note 103, but was considered a synonym of *P. e. eunus* by Scott (1981), *Papilio* (n.s.) 1: 12, (1986), Butts. N. Am.: 435, and Austin and J. Emmel (1998), Syst. W. N. Am. Butts. (42): 503.

**b. *Pseudocopaeodes eunus alinea* Scott, 1981**

*Papilio* (n.s.) 1: 12.

**Original Combination:** *Copaeodes eunus alinea*

**Type Locality:** "Afton, San Bernardino Co. Calif." [San Bernardino County, California]

**Types:** Holotype in LACM.

**c. *Pseudocopaeodes eunus flavus* Austin & J. Emmel, 1998**

Syst. W. N. Am. Butts. (42): 503, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.

**Original Combination:** *Pseudocopaeodes eunus flavus*

**Type Locality:** "Nevada: Churchill County; Stillwater National Wildlife Refuge, Loop Road, 1189 m, T20N R32E S4-5 on USGS Foxtail Lake, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

d. **Pseudocopaodes eunus obscurus** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 503-504, figs. 11 ♂ D, 12 ♂ V (holotype); 13 ♀ D, 14 ♀ V.

**Original Combination:** *Pseudocopaodes eunus obscurus*

**Type Locality:** "Nevada: Carson City; Eagle Valley, Lompa Lane at Airport Road (the latter combines with Hot Springs Road and Graves Lane), 1417 m, T15N R20E S9 on USGS New Empire, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

Genus **Hesperia** Fabricius, 1793

Entomol. Syst. 3(1): 258, no. 187. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(2): 200. I.C.Z.N. *Opinion* 1240 placed this name on the *Official Index of Generic Names in Zoology* as name no. 2178. Due to the erroneous type designation by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187-189, most of what is now known as *Pyrgus* was previously called *Hesperia*. The name "*Steropes*" was introduced by Rafinesque (1815), Analyse Nat.: 128, for an unspecified part of what he called "*Hesperia* Cuvier." No other information was given. This name is unidentifiable, does not conform to Code Article 12, and is unavailable; it is also preoccupied by *Steropes* Steven, 1806, Mém. Soc. Imp. Nat. Moscou 1: 166.

= ‡*Pamphila* [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 287, no. 41. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by designation of Westwood (1840), Intro. Class. Ins. 2: 88. A junior objective synonym of *Hesperia* Fabricius, 1793.

= ‡*Diorthis* Rafinesque, 1815

Analyse Nat.: 128, no. '7' [37]. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for "*Hesperia* Cuvier", erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793.

= ‡*Phidias* Rafinesque, 1815

Analyse Nat.: 128, no. 41. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for *Pamphila* [Fabricius], 1807, erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793.

= ‡*Symmachia* Sodoffsky, 1837

Bull. Soc. Imp. Nat. Moscou 10(6): 82, no. 16. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, as replacement name for *Hesperia* Fabricius, 1793, erroneously thought to be preoccupied. A junior objective synonym of *Hesperia* Fabricius, 1793; this name is also preoccupied by *Symmachia* Hübner, [1819], Verz. bekannt. Schmett. (2): 26.

= *Ocytes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Hesperia metea* Scudder, 1863, Proc. Essex Inst. 3: 177-178, no. 79, by original designation.

= *Anthomaster* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia leonardus* T. Harris, 1862, Ins. injur. Veget. (3rd ed.): 314, fig. 138, by original designation.

= ‡*Urbicola* Tutt, 1905

Nat. Hist. Brit. Butts. 1(1): 84. Type-species: *Papilio comma* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 162, by original designation. A junior objective synonym of *Hesperia* Fabricius, 1793. Tutt erroneously attributed this name to Barbut, thereby making it a senior synonym of *Hesperia*; however, Barbut did not use the name in a generic sense (see Hemming (1967), Bull. Br. Mus. (Nat. Hist.) Entomol. Suppl. 9: 454), but followed Linnaeus' usage as an interposed adjective.

comma group MacNeill, 1964

Univ. Calif. Publ. Entomol. 35: 65-67.

211. **Hesperia uncas** W. H. Edwards, 1863

a. **Hesperia uncas uncas** W. H. Edwards, 1863

Proc. Entomol. Soc. Philad. 2(1): 14, 19-20, no. 9; (2): pl. 5, fig. 3 ♂ D&V.

**Original Combination:** *Hesperia Uncas*

**Type Locality:** "Philadelphia"; corrected to "vicinity of Denver, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 298-299.

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 299, fig. 26 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 47, fig. 27 ♂ D.

= *ridingsii* Reakirt, 1866

Proc. Entomol. Soc. Philad. 6[1]: 151.

**Original Combination:** *Hesperia Ridingsii*

**Type Locality:** "Rocky Mountains, Colorado Terr."

**Types:** Holotype in FMNH.

b. **Hesperia uncas lasus** (W. H. Edwards, 1884)

Papilio 4(3): 54-55.

**Original Combination:** *Pamphila Lasus*

**Type Locality:** "southern Arizona"; tentatively defined as "foothills east of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 299-300; corrected to "southeast from there [Tucson] in either Cochise or Santa Cruz County" by Austin and McGuire (1998), Syst. W. N. Am. Butts. (66): 777.

**Types:** Holotype (#33623) in USNM; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 300, fig. 27 ♂ D&V.

c. **Hesperia uncas grandiosa** Austin & McGuire, 1998

Syst. W. N. Am. Butts. (66): 778, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype); 1 third row 3 ♂'s right to left D, 2



3 ♂'s right to left, 1 fourth row 4 ♀'s D, 2 fourth row 4 ♀'s V, 9 ♂ genitalia, 17 ♀ genitalia.

**Original Combination:** *Hesperia uncas grandiosa*

**Type Locality:** "Nevada: White Pine County; White River Valley, 1 mile north of Nye County line, 1676 m, T10N R61E S11 on USGS Moorman Spring NE, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

d. *Hesperia uncas fulvapalla* Austin & McGuire, 1998

Syst. W. N. Am. Butts. (66): 777, figs. 3 top row left ♂ D, 4 top row left ♂ V (holotype); 3 top row 3 ♂'s right to left D, 4 top row 3 ♂'s right to left V, 3 second row 4 ♀'s D, 4 ♀'s V, 8 ♂ genitalia, 16 ♀ genitalia.

**Original Combination:** *Hesperia uncas fulvapalla*

**Type Locality:** "Nevada: Nye County; Railroad Valley, U.S. Route 6, Lockes Ponds, 1.3 miles south ('southeast') of Lockes, 1463 m, T8N R55E S113 [sic!] on USGS Portuguese Mt., Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

e. *Hesperia uncas reeseorum* Austin & McGuire, 1998

Syst. W. N. Am. Butts. (66): 776, figs. 1 top row left ♂ D, 2 top row left ♂ V (holotype); 1 top row 3 ♂'s right to left D, 2 top row 3 ♂'s right to left V, 1 second row 4 ♀'s D, 2 second row 4 ♀'s V, 7 ♂ genitalia, 15 ♀ genitalia.

**Original Combination:** *Hesperia uncas reeseorum*

**Type Locality:** "Nevada: Lander County; Reese River Valley, Nevada State Route 722 (previously State Route 2), 4 miles east (=northeast) of Reese River, 1743 m, T19N R43E S32 on USGS Austin, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

f. *Hesperia uncas terraclivosa* Austin & McGuire, 1998

Syst. W. N. Am. Butts. (66): 779, figs. 5 top row left ♂ D, 6 top row left ♂ V (holotype); 5 top row 3 ♂'s right to left D, 6 top row 3 ♂'s right to left V, 5 second row 4 ♀'s D, 6 second row 4 ♀'s V, 11 ♂ genitalia, 18 ♀ genitalia.

**Original Combination:** *Hesperia uncas terraclivosa*

**Type Locality:** "Nevada: Lander County; Toquima Range, Monitor Valley-Petes Summit Road, 12.0 road miles southeast of Nevada State Route 376, 1950 m, T16N R4E S5 on USGS Spencer Hot Springs, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

g. *Hesperia uncas giuliani* McGuire, 1998

Syst. W. N. Am. Butts. (37): 461-462, figs. 1 ♂ D, 2 ♂ V; 3 ♀ D, 4 ♀ V, 6a, b ♂ valvae.

**Original Combination:** *Hesperia uncas giuliani*

**Type Locality:** "California, Mono County: Adobe Hills, 5 mi. NW of Adobe Lake, 7100 ft. elevation"

**Types:** Holotype in CAS.

h. *Hesperia uncas macswaini* MacNeill, 1964

Univ. Calif. Publ. Entomol. 35: 85-86, pl. 1, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D (including holotype?), figs. 12 ♂ stigma, 19 ♂ valve, 22 ♂ genitalia, pl. 7 photograph of egg.

**Original Combination:** *Hesperia uncas macswaini*

**Type Locality:** "Blancos Corral, White Mountains, Mono County, California. Elevation 10,400 feet"

**Types:** Holotype in CAS.

212. *Hesperia juba* (Scudder, 1874)

Mem. Boston Soc. Nat. Hist. 2(3)(4): 349, pl. 10, figs. 19 ♂ D&V, 20 ♀ D&V; pl. 11 figs. 5, 6 ♂ genitalia.

**Original Combination:** *Pamphila juba*

**Type Locality:** "California...neighborhood of Salt Lake City, Utah"; lectotype from "California."

**Types:** Lectotype in BMNH, designated by Skinner and R. Williams (1924), Trans. Am. Entomol. Soc. 50(3): 188; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2082 ♂ D&V (as *Hesperia comma*).

The name *juba* is often credited to Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 77, no. 1, where he cited *Pamphila comma* (*sensu* Boisduval (1852), Annls. Soc. Entomol. Fr. (2)10: 313). Neither Scudder at that time nor Boisduval actually described the taxon, so Boisduval's reference to *comma* cannot qualify as an indication (Code Article 12.2). *Pamphila juba* Scudder, 1872, is a *nomen nudum*.

= ‡"ogdenensis" (W. Holland, 1931)

Butt. Book (rev. ed.): 372, pl. 52, fig. 9 ♀ D ("holotype").

**Original Combination:** [*Erynnis juba*] ab. *ogdenensis*

**Type Locality:** "Ogden, Utah" [Weber County]

**Types:** Holotype in CMNH.

\*213. *Hesperia comma* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 484, no. 162; cited Linnaeus (1746), Fauna Svecica: 241, no. 793, and Merian (1730), Europ. Ins.: 15, pl. 48.

**Original Combination:** *P[apilio]*. *P[lebejus urbicola]*. *Comma*

**Type Locality:** "in Europa"; suggested to be "Sweden" by Verity (1940), Farfalle diurn. Ital. 1: 112, based on citation in Fauna Svecica.

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 314.

I.C.Z.N. *Opinion 1240* placed this name on the *Official List of Specific Names in Zoology* as name no. 2838. The Palaearctic synonymy is not listed below. Layberry *et al.* (1998), Butts. Can.: 52-54, treated North American populations of "*comma*" as three species-level taxa. This had been done before (*e.g.*, MacNeill (1964), Univ. Calif. Publ. Entomol. 35: 89-90), in a slightly different fashion. The treatment presented by Layberry *et al.* is adopted here, although as noted by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 12, the relationship between *assinihoia* and *colorado* requires more study; these two taxa may be conspecific.

a. *Hesperia comma hulbirti* Lindsey, 1939

Ann. Entomol. Soc. Am. 32(1): 171.

**Original Combination:** *Hesperia hulbirti*

**Type Locality:** "Hurricane Hill in the Olympic Mts., Washington" [Clallam County]

**Types:** Holotype in CMNH; paratypes figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 4, figs. 4 ♂ V, 11 ♀ V.

b. *Hesperia comma manitoba* (Scudder, 1874)

Mem. Boston Soc. Nat. Hist. 2(3)(4): 342, 343, 344 key, 345 key, 346 key, 351, no. 7, pl. 10, figs. 8 ♂ D&V, 9 ♀ D&V, 10 ♀ D&V, 11 ♂ D&V (lectotype); pl. 11, figs. 7, 8 ♂ genitalia; figured by Scudder (1889), Butts. E. U. S. & Can. 3(10): pl. 17, fig. 4 ♂ D&V from British Columbia.

**Original Combination:** *Pamphila Manitoba*

**Type Locality:** "Colorado...about Pike's Peak...on the shores of Lake Winnipeg...at Labache, and at Rivière du Loup"; lectotype from "Lahache, B. C." [British Columbia]

**Types:** Lectotype (#15301) in MCZ, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 127.

c. *Hesperia comma borealis* Lindsey, 1942

Denison Univ. Bull., J. Sci. Lab. 37(1/2): 19, pl. 1, fig. 6 ♂ genitalia, pl. 4, fig. 9 ♂ V (holotype), 16 ♀ V.

**Original Combination:** *Hesperia borealis*

**Type Locality:** "Nain, Labrador" [Newfoundland and Labrador]

**Types:** Holotype in CUIC.

d. *Hesperia comma laurentina* (Lyman, 1892)

Can. Entomol. 24(3): 57, 59.

**Original Combination:** [*Pamphila Manitoba*] var. *Laurentina*

**Type Locality:** "Lower St. Lawrence...Cacouna...Rivière du Loup, Metis...Gaspé"; lectotype from "Gaspé, P. Q." [Quebec]

**Types:** Lectotype in LEMQ, designated by Sheppard and Vickery (1975), Can. Entomol. 107(10): 1130, fig. 1 ♂ D.

214. *Hesperia assiniboia* (Lyman, 1892)

Can. Entomol. 24(3): 57, 59.

**Original Combination:** [*Pamphila Manitoba*] var. *Assiniboia*

**Type Locality:** "Regina" [Saskatchewan]

**Types:** Lectotype in LEMQ, designated by Sheppard and Vickery (1975), Can. Entomol. 107(10): 1130, fig. 2 ♂ D.

215. *Hesperia colorado* (Scudder, 1874)

a. *Hesperia colorado colorado* (Scudder, 1874)

Mem. Boston Soc. Nat. Hist. 2(3)(4): 342, 343, 344 key, 345 key, 346 key, 349, no. 4, pl. 10, figs. 16 ♀ D&V, 17 ♀ D&V, 18 ♂ D&V (lectotype); pl. 11, figs. 1, 2 ♂ genitalia.

**Original Combination:** *Pamphila Colorado*

**Type Locality:** "Colorado, about the Georgetown and South Park Roads...Arizona"; lectotype from "Colorado"; subsequently suggested to be "Tennessee Pass, 3150 m (=10300 feet), Lake-Eagle Cos. Colorado" by Scott (1998), Papilio (n.s.) 11: 6; however, Guanella Pass (= the road between Georgetown and South Park) is more likely to be the correct type locality (A. Warren pers. comm. 2006). [Park-Clear Creek counties]

**Types:** Lectotype (#15299) in MCZ, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 126-127; "type" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 1 ♂ D.

b. *Hesperia colorado ochracea* Lindsey, 1941

Ann. Entomol. Soc. Am. 34(4): 770-772.

**Original Combination:** *Hesperia colorado* form *ochracea*

**Type Locality:** "Platte Canyon, Colo." [Jefferson-Douglas counties]

**Types:** Holotype in AMNH; figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 5, fig. 15 ♂ V.

This name is not a primary homonym of "*Hesperia ochracea*" *sensu* Staudinger (1871), *in*: Staudinger and Wocke, Cat. Lepid. Europ. (2nd ed.): 35, Plötz (1883), Stettiner Entomol. Ztg. 44(46): 197, etc.; these usages refer to *Pamphila ochracea* Bremer, 1861, Bull. Acad. Sci. St. Pétersbourg (ser. 3)3(7): col. 473, secondarily placed in *Hesperia*. That taxon is now in *Ochlodes*, so the retrieval of this name from secondary homonymy was mandatory since no replacement name was ever proposed (Code Articles 57.3.1, 59.3).

c. *Hesperia colorado oroplata* Scott, 1981

Papilio (n.s.) 1: 8.

**Original Combination:** *Hesperia comma oroplata*

**Type Locality:** "Spring Creek, Fremont Co., Colo." [Colorado]

**Types:** Holotype in LACM.

d. *Hesperia colorado susanae* L. Miller, 1962

Entomol. News 73(4): 85-88, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Hesperia susanae*

**Type Locality:** "White Mountains, Arizona...Horseshoe Cienega, White Mts., Apache Co., Ariz.; 8000 ft, in dry meadow"

**Types:** Holotype in CMNH.

e. *Hesperia colorado mojaviensis* Austin & McGuire, 1998

Syst. W. N. Am. Butts. (39): 481-482, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Hesperia comma mojaviensis*

**Type Locality:** "Nevada: Clark County; Spring Mountains, Kyle Canyon Ski Area (or Run), 2225-2400 m"

**Types:** Holotype in MGCL.

f. *Hesperia colorado idaho* (W. H. Edwards, 1883)

Can. Entomol. 15(8): 148, 151, no. 5.

**Original Combination:** [*Pamphila Colorado*] var. *Idaho*

**Type Locality:** "Oregon, Washington Terr. and California"; defined as "Lake Tahoe, Placer County, California" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 293-294; subsequently suggested to be "the lowlands at Doyle in Lassen



- Co. Calif.” by Scott (1998), *Papilio* (n.s.) 11: 8.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 3 ♂ D, as “type”; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 295, fig. 23 ♂ D&V.
- g. ***Hesperia colorado leussleri*** Lindsey, 1940  
 Ann. Entomol. Soc. Am. 33(2): 373-374.  
**Original Combination:** *Hesperia colorado* form *leussleri*  
**Type Locality:** “Warner’s Hot Springs, San Diego Co., Cal.” [California]  
**Types:** Holotype probably in CMNH; figured by Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): pl. 5, figs. 1 ♂ V.
- h. ***Hesperia colorado tildeni*** H. Freeman, 1956  
 Lepid. News 9(6): 196-198, pl., top row ♂ D&V (holotype), bottom row ♀ D&V.  
**Original Combination:** *Hesperia tildeni*  
**Type Locality:** “Cherry Flat Reservoir, Santa Clara County, California”  
**Types:** Holotype in AMNH.
- i. ***Hesperia colorado harpalus*** (W. H. Edwards, 1881)  
 Trans. Am. Entomol. Soc. 9(1): 3-4.  
**Original Combination:** *Pamphila Harpalus*  
**Type Locality:** “Nevada”; defined as “vicinity of Carson City, Ormsby County, Nevada” by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 288-290; suggested to be “Sierra Nevada Mts., west of Carson City” by Scott (1998), *Papilio* (n.s.) 11: 7.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 289, fig. 20 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, figs. 18 ♂ D (paralectotype), 19 ♂ D (lectotype).  
 As first reviser, Lindsey (1942), Denison Univ. Bull., J. Sci. Lab. 37(1/2): 24, gave priority to *harpalus* over *cabelus* (below).  
 = *cabelus* (W. H. Edwards, 1881)  
 Trans. Am. Entomol. Soc. 9(1): 4.  
**Original Combination:** *Pamphila Cabelus*  
**Type Locality:** “Nevada”; defined as “vicinity of Carson City, Ormsby County, Nevada” by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 290; suggested to be “Sierra Nevada Mts., west of Carson City” by Scott (1998), *Papilio* (n.s.) 11: 8; corrected to “California, probably west of the Sierra Nevada” by Austin (1998), Syst. W. N. Am. Butts. (50): 630.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 291, fig. 21 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 17 ♂ D.  
 = *yosemite* Leussler, 1933  
 Entomol. News 44: 169-170.  
**Original Combination:** *Hesperia yosemite*  
**Type Locality:** “near Yosemite, Calif.” [Mariposa County, California]  
**Types:** Holotype in OSU.
- j. ***Hesperia colorado oregonia*** (W. H. Edwards, 1883)  
 Can. Entomol. 15(8): 150.  
**Original Combination:** [*Pamphila*] *Oregonia*  
**Type Locality:** “north California...Nevada”; defined as “Trinity County, California” by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 291-292; suggested to be “Sierra Nevada Mts., west of Carson City” by Scott (1998), *Papilio* (n.s.) 11: 8, but this was not acceptable to Shapiro and Forister (2005), J. Lepid. Soc. 59(3): 164 or A. Warren (2005), Butts. Ore.: 39-40, who employed F. Brown and L. Miller’s definition.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 293, fig. 22 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 5 ♂ D.
- k. ***Hesperia colorado mattoonorum*** McGuire, 1998  
 Syst. W. N. Am. Butts. (37): 464-465, figs. 16 ♂ D, 17 ♂ V; 18 ♀ D, 19 ♀ V.  
**Original Combination:** *Hesperia comma mattoonorum*  
**Type Locality:** “Low Divide Road (County Rd. 308) at High Divide, 6 air miles E of Hwy. 101 at Smith River, 2,300 ft. elevation, Del Norte County, California”  
**Types:** Holotype in CAS.
- l. ***Hesperia colorado dodgei*** (E. Bell, 1927)  
 J. N. Y. Entomol. Soc. 35(2): 175.  
**Original Combination:** *Pamphila juba* race *dodgei*  
**Type Locality:** “Santa Cruz, California” [Sant Cruz County]  
**Types:** Holotype in AMNH.
216. ***Hesperia woodgatei*** (R. Williams, 1914)  
 Entomol. News 25(6): 266, no. 71.  
**Original Combination:** *Pamphila woodgatei*  
**Type Locality:** “Jamez [*sic*; Jemez] Mountains, New Mexico” implied from the title of the paper. [Sandoval County]  
**Types:** Syntypes (#7171) in ANSP; a “paratype” figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 11 ♂ V.
- leonardus group MacNeill, 1964  
 Univ. Calif. Publ. Entomol. 35: 134-135.
217. ***Hesperia ottoe*** W. H. Edwards, 1866  
 Proc. Entomol. Soc. Philad. 6(2): 200, 207, no. 7.  
**Original Combination:** *Hesperia Ottoe*



**Type Locality:** "Kansas"

**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 286, fig. 18 ♂ D&V.

218. **Hesperia leonardus** T. Harris, 1862a. **Hesperia leonardus leonardus** T. Harris, 1862

Ins. injur. Veget. (3rd ed.): 314-315, fig. 138 ♂ D&V.

**Original Combination:** *Hesperia Leonardus*

**Type Locality:** "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 16. Reverend L. W. Leonard lived in Boston.

**Types:** Syntypes (#26350) in MCZ.

= *lidia* Plötz, 1882

Stettiner Entomol. Ztg. 44(1-3): 64, no. 394; cited unpublished pl. 607.

**Original Combination:** [*Hesperia*] *Lidia*

**Type Locality:** Not stated.

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, suggested that this is a "var. of *Limochores manatagua* Scudd.", through an examination of the unpublished drawing made by Plötz; however, Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 324, considered this a synonym of *Hesperia leonardus* on the same basis. This name may best be considered a *nomen dubium*.

= *liberia* Plötz, 1883

Stettiner Entomol. Ztg. 44(4-6): 220, no. 473; cited unpublished pl. 661.

**Original Combination:** [*Hesperia*] *Liberia*

**Type Locality:** Not stated.

**Types:** Type(s) may be in ZSMC or lost.

Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 320, considered this a senior synonym of *Hesperia woodgatei* (R. Williams, 1914); however, it is treated herein as a *nomen dubium*.

= *stallingsi* H. Freeman, 1944

Bull. Brooklyn Entomol. Soc. 38(5): 153-154.

**Original Combination:** *Hesperia leonardus stallingsi* new form

**Type Locality:** "Blendon, Franklin Co., Ohio"

**Types:** Holotype in AMNH.

b. **Hesperia leonardus pawnee** Dodge, 1874

Can. Entomol. 6(3): 44-45.

**Original Combination:** *Hesperia pawnee*

**Type Locality:** "Glencoe, Nebraska, upon high rolling prairie" [Dodge County]

**Types:** A syntype (#16583) in MCZ; a syntype figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 30 ♂ D.

= *ogallala* (Leussler, 1921)

Entomol. News 32(7): 206-207.

**Original Combination:** *Pamphila ogallala*

**Type Locality:** "Omaha, Nebraska" [Douglas County]

**Types:** Holotype in OSU; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 73, figs. 20 ♂ D, 21 ♂ V.

c. **Hesperia leonardus montana** (Skinner, 1911)

Entomol. News 22(9): 413.

**Original Combination:** *Pamphila pawnee montana*

**Type Locality:** "Colorado"; defined in error as "Chaffee Co., 7500" by Gillham and Ehrlich (1954), Trans. Am. Entomol. Soc. 80(3/4): 110; subsequently defined as "Buffalo Creek, Jefferson County, Colorado" by Scott and Stanford (1983), J. Res. Lepid. 20(1): 27-28.

**Types:** Lectotype (#7086) in ANSP, designated by Scott and Stanford (1983), J. Res. Lepid. 20(1): 27; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 29 ♂ D.

219. **Hesperia pahaska** Leussler, 1938a. **Hesperia pahaska pahaska** Leussler, 1938

Entomol. News 49(1): 5-6.

**Original Combination:** *Hesperia pahaska*

**Type Locality:** "canyon region of Sioux County near the town of Harrison, Nebraska"

**Types:** Holotype in OSU.

b. **Hesperia pahaska williamsi** Lindsey, 1940

Ann. Entomol. Soc. Am. 33(2): 375-376.

**Original Combination:** *Hesperia pahaska* form *williamsi*

**Type Locality:** "Baboquivari Mts., Pima Co., Ariz."

**Types:** Holotype in CMNH (description says ANSP).

c. **Hesperia pahaska martini** MacNeill, 1964

Univ. Calif. Publ. Entomol. 35: 148-150, pl. 1, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D (including holotype?), figs. 5 larval setal pattern, 6 larval head capsule, 7 larval head capsule, 26 ♀ genitalia, pl. 6 egg.

**Original Combination:** *Hesperia pahaska martini*

**Type Locality:** "4.5 miles southeast of Ivanpah, New York Mtns., San Bernardino Co., Calif."

**Types:** Holotype in CAS.

220. **Hesperia columbia** (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2; figured (as *Pamphila sylvanoides*) by Scudder (1874), Mem. Boston Soc. Nat.

Hist. 2(3)(4): pl. 10, fig. 22 ♂ D&V.

**Original Combination:** *P[amphila]*. *Columbia*

**Type Locality:** "California (Henry Edwards)"

**Types:** Holotype (#15298) in MCZ.

= *california* (W. G. Wright, 1905)

Butts. W. Coast: 65, no. 423; 241, no. 423, pl. 31, figs. 423 ♂ D (lectotype), 423b ♀ D, 423c ♂ V.

**Original Combination:** [*Pamphila*] *California*; *Pamphila California* n. s.

**Type Locality:** "Southern California"

**Types:** Lectotype (#4321) in CAS, designated by MacNeill (1964), Univ. Calif. Publ. Entomol. 35: 142.

= *erynnioides* (Dyar, 1907)

J. N. Y. Entomol. Soc. 15(1): 50-51.

**Original Combination:** *Thymelicus erynnioides*

**Type Locality:** "Monterey Co., California"

**Types:** Holotype (#10252) in USNM.

metea group MacNeill, 1964

Univ. Calif. Publ. Entomol. 35: 151-152.

221. ***Hesperia metea*** Scudder, 1863

a. ***Hesperia metea metea*** Scudder, 1863

Proc. Essex Inst. 3: 177-178, no. 79; figured by Scudder (1889), Butts. E. U. S. & Can. 3(12): pl. 10, fig. 5 ♂ D&V, 11 ♀ D.

**Original Combination:** *Hesperia Metea*

**Type Locality:** "Conn." [Connecticut]

**Types:** Holotype in AMNH.

b. ***Hesperia metea intermedia*** Gatrell, 2003

Tax. Rep. Int. Lepid. Surv. 4(3): 4-5, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.

**Original Combination:** *Hesperia metea intermedia*

**Type Locality:** "South Carolina: Pickens County, visc. [sic!] Lake Issaqueena"

**Types:** Holotype in MGCL.

c. ***Hesperia metea licinus*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 275, no. 18.

**Original Combination:** *Pamphila Licinus*

**Type Locality:** "near Waco, Texas" [McLennan County]

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 28 ♂ D, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 295, fig. 24 ♂ D&V.

As first reviser, H. Freeman (1948), Entomol. News 59(8): 205, gave *licinus* priority over *horus* (below).

= *horus* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 277, no. 22.

**Original Combination:** *Pamphila Horus*

**Type Locality:** "Dallas, Texas" [Dallas County]

**Types:** Holotype (#8975) in MCZ; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, fig. 14 ♀ V, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 296, fig. 25 ♀ D&V.

= *belfragei* H. Freeman, 1944

Field & Lab. 12(1): 20.

**Original Combination:** *Hesperia metea belfragei* new form

**Type Locality:** "Cedar Hill, Dallas County, Texas"

**Types:** Holotype in AMNH.

222. ***Hesperia viridis*** (W. H. Edwards, 1883)

Can. Entomol. 15(8): 147.

**Original Combination:** [*Pamphila Juba*] var. *Viridis*

**Type Locality:** "Los [sic!] Vegas, N. M."; holotype labeled "Las Vegas, N. M. 7000 ft." [San Miguel County, New Mexico]

**Types:** Holotype in SEMC, figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 287, fig. 19 ♂ D&V.

223. ***Hesperia attalus*** (W. H. Edwards, 1871)

a. ***Hesperia attalus attalus*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 276, no. 19.

**Original Combination:** *Pamphila Attalus*

**Type Locality:** "near Waco, Texas" [McLennan County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 374, pl. 52, fig. 24 ♀ V, as "type"; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 282, fig. 15 ♀ D&V.

= *seminole* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2.

**Original Combination:** *O[cytes]*. *Seminole*

**Type Locality:** "Florida to Texas"

**Types:** Syntypes (#8971) in MCZ.

Scudder (1889), Butts. E. U. S. & Can. 3(10): pl. 17, fig. 9 ♀ D, figured a specimen from Texas, which he claimed was drawn from the "type."

= ‡"quaiapen" (Scudder, 1889)

Butts. E. U. S. & Can. 2(11): 1655.

**Original Combination:** *Erynnis attalus quiapen* dimorphic form [♀]

**Type Locality:** Not stated.

**Types:** Type(s) may be in MCZ.

- b. *Hesperia attalus nigrescens* Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 12, figs. 23 ♂ D, 28 ♂ V (holotype); 24 ♀ D, 29 ♀ V.

**Original Combination:** *Hesperia attalus nigrescens*

**Type Locality:** "South Carolina: Horry County"

**Types:** Holotype in CMNH.

- c. *Hesperia attalus slossonae* (Skinner, 1890)

Entomol. Am. 6(7): 138.

**Original Combination:** *Pamphila slossonae*

**Type Locality:** "Florida"

**Types:** Syntypes (#7765) in ANSP.

ungrouped species Burns, 1987

J. Lepid. Soc. 41(4): 176-177. Burns suggested that *H. sassacus*, *H. miriamae* and *H. nevada* may be closely related, and that *H. meskei* may be most closely related to the *metea* group of species.

224. *Hesperia meskei* (W. H. Edwards, 1877)

- a. *Hesperia meskei meskei* (W. H. Edwards, 1877)

Can. Entomol. 9(3): 58-59.

**Original Combination:** *Pamphila Meskei*

**Type Locality:** "Bastrop Co., Texas"

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 33 ♀ D, and F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 283, fig. 16 ♀ D&V.

- b. *Hesperia meskei straton* (W. H. Edwards, 1881)

Papilio 1(5): 78.

**Original Combination:** *Pamphila straton*

**Type Locality:** "Indian River" [Brevard County, Florida]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 376, pl. 52, fig. 34 ♂ V, as "type"; figured by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 285, fig. 17 ♂ D&V.

- c. *Hesperia meskei pinocayo* Gatrell & Minno, 2003

Tax. Rep. Int. Lepid. Surv. 4(3): 6, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.

**Original Combination:** *Hesperia meskei pinocayo*

**Type Locality:** "Florida: Monroe County, Big Pine Key"

**Types:** Holotype in MGCL.

225. *Hesperia dacotae* (Skinner, 1911)

Entomol. News 22(9): 412.

**Original Combination:** *Pamphila sassacus dacotae*

**Type Locality:** "Volga, South Dakota" [Brookings County]

**Types:** Syntype (#7087, labeled as "holotype", from Volga) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 22 ♂ D.

226. *Hesperia lindseyi* (W. Holland, 1930)

- a. *Hesperia lindseyi lindseyi* (W. Holland, 1930)

Ann. Carnegie Mus. 19(3): 158-159.

**Original Combination:** *Erynnis lindseyi*

**Type Locality:** "Nellie, California...Ukiah, Calif." [Mariposa and Mendocino counties]

**Types:** Syntypes (one labeled "holotype") in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 73, figs. 10 ♂ D, 11 ♀ D.

- b. *Hesperia lindseyi macneilli* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (38): 475-476, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Hesperia lindseyi macneilli*

**Type Locality:** "California: Mendocino County; Branscomb Rd. at Laytonville, 1645"

**Types:** Holotype in LACM.

- c. *Hesperia lindseyi eldorado* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (38): 476-477, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Hesperia lindseyi eldorado*

**Type Locality:** "California: El Dorado County; west slope Sierra Nevada; Meadow Brook barrens, Traverse Creek; T.12N., R.10E., Sec. 24"

**Types:** Holotype in LACM.

- d. *Hesperia lindseyi septentrionalis* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (38): 477-478, 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Hesperia lindseyi septentrionalis*

**Type Locality:** "California: Siskiyou Co., Shasta Valley Wildlife Area on Little Shasta River, 4 rd. mi. E. of Montague, 2500 ft. elev.; S.33, T.45N., R.5W"

**Types:** Holotype in LACM.



- e. **Hesperia lindseyi mccorklei** P. Severns & D. Severns, 2005  
J. Lepid. Soc. 59(3): 166-167, figs. 1a ♀ D&V (holotype), 1b ♂ D&V.  
**Original Combination:** *Hesperia lindseyi mccorklei*  
**Type Locality:** "Oregon, Douglas County, Hillside north of Jackson Creek Road, 3.8 miles east of the junction with South Umpqua Road (UTMs: N 4755771 m, E 10 514710 m, 1470 ft elevation)"  
**Types:** Holotype in MGCL.
227. **Hesperia sassacus** T. Harris, 1862
- a. **Hesperia sassacus nantahala** Gatrell & Grkovich, 2003  
Tax. Rep. Int. Lepid. Surv. 4(3): 3, figs. 14 ♂ D&V (holotype), 15 ♀ D&V, 16 ♂ V, 18 ♀ D&V.  
**Original Combination:** *Hesperia sassacus nantahala*  
**Type Locality:** "North Carolina: Clay County, Hwy. 64 at Buck Creek, 3400 ft."  
**Types:** Holotype in MGCL.
- b. **Hesperia sassacus sassacus** T. Harris, 1862  
Ins. injur. Veget. (3rd ed.): 315.  
**Original Combination:** *Hesperia Sassacus*  
**Type Locality:** "Cambridge" [Middlesex County, Massachusetts]  
**Types:** Holotype (#26349) in MCZ.  
‡"incerta (Scudder, 1863)  
Proc. Essex Inst. 3: 173, under no. 70.  
**Original Combination:** *H[esperia]. incerta*  
Scudder compared *Hesperia sassacus* with "*H. incerta*"; this name has never been used otherwise and is a *nomen nudum*.
- c. **Hesperia sassacus manitoboides** (Fletcher, 1889)  
Ann. Rep. Entomol. Soc. Ontario 19: 85-86.  
**Original Combination:** *Pamphila Manitoboides*  
**Type Locality:** "Nepigon"; emended to "Nepigon, Ont., and Sudbury, Ont." by Fletcher (1903), Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 215. [Nipigon, Thunder Bay County, Ontario]  
**Types:** Syntype in USNM.  
The description is of the larva, and might be considered conditional. Fletcher (1903), Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 214-215, and (1904), Can. Entomol. 36(5): 128-129, redescribed this taxon. Layberry *et al.* (1998), Butts. Can.: 57, did not recognize this as a subspecies-level taxon.
228. **Hesperia miriamae** MacNeill, 1959
- a. **Hesperia miriamae miriamae** MacNeill, 1959  
Wasmann J. Biol. 17(1): 90-94, figs. 1A ♂ genitalia, uncus, tegumen and vinculum, 1B ♂ genitalia, valve, 1C ♂ genitalia, tegumen and uncus D.  
**Original Combination:** *Hesperia miriamae*  
**Type Locality:** "Near Mono Pass, northwest Inyo County, California; elevation 12,000 feet"  
**Types:** Holotype in CAS; paratypes figured by MacNeill (1964), Univ. Calif. Publ. Entomol. 35: pl. 1, figs. 10 ♂ D, 11 ♂ V, 12 ♀ D.
- b. **Hesperia miriamae longaevicola** McGuire, 1998  
Syst. W. N. Am. Butts. (37): 463, figs. 7 ♂ D, 8 ♂ V; 9 ♀ D, 10 ♀ V.  
**Original Combination:** *Hesperia miriamae longaevicola*  
**Type Locality:** "California, Mono Co.: Mt. Barcroft, 13,400 ft. elevation, White Mountains"  
**Types:** Holotype in CAS.
229. **Hesperia nevada** (Scudder, 1874)
- a. **Hesperia nevada nevada** (Scudder, 1874)  
Mem. Boston Soc. Nat. Hist. 2(3) (4): 342, 343, 344 key, 345 key, 347-348, no. 2, pl. 10, figs. 1 ♂ D&V (lectotype), 2 ♀ D&V, 3 ♀ D&V, 4 ♂ D&V; pl. 11, figs. 3, 4 ♂ genitalia.  
**Original Combination:** *Pamphila Nevada*  
**Type Locality:** "Colorado...on the mountains about the South Park and in the Park itself" "Nevada, California and Oregon"; lectotype from "Colorado"; defined as "S. Park, Colo." by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 126. [Park County]  
**Types:** Lectotype (#15300) in MCZ, designated by W. Barnes and McDunnough (1916), *ibid.* W. Holland (1931), Butt. Book (rev. ed.): pl. 52, figs. 12 ♂ D, 13 ♀ D, 14 ♀ V, figured "types" from the Mead collection; some of these may be paralectotypes, and at least figure 12 shows a specimen sent to W. H. Edwards by Scudder.
- b. **Hesperia nevada sierra** Austin, J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (40): 487-488, figs. 1 upper left ♂ D, 2 upper left ♂ V (holotype); 1 upper right ♀ D, 2 upper right ♀ V.  
**Original Combination:** *Hesperia nevada sierra*  
**Type Locality:** "Nevada: Washoe County; Carson Range, Tahoe Meadows, Nevada State Route 431, 2.4 miles west of Mt. Rose (road) Summit, 2695 m, R18E T17N S25 on USGS Mt. Rose, Nev. 7.5' quadrangle"  
**Types:** Holotype in MGCL.

Genus **Polites** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia peckius* W. Kirby, 1837, *in*: Richardson, Fauna Bor.-Am. [4]: 300, pl. 4, figs. 2, 3, by original designation. The generic synonymy follows Burns (1994), J. Lepid. Soc. 48(1): 24-45.  
= *Hedone* Scudder, 1872

- 4th Ann. Rep. Peabody Acad. Sci. (1871): 79. Type-species: *Hesperia brettus* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (25): pl. 75, figs. 3-5 (= *Thymelicus vibex* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [118], figs. 685 ♂ D, 686 ♂ V; 22, no. 343; synonym), by original designation.
- = *Limochores* Scudder, 1872
- 4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia manataaqua* Scudder, 1863, Proc. Essex Inst. 3: 175 (= *Hesperia origenes* Fabricius, 1793, Entomol. Syst. 3(1): 328, no. 245; synonym), by original designation.
- = *Pyrrosidia* Scudder, 1874
- Mem. Boston Soc. Nat. Hist. 2(3)(4): 346 (nota). Type-species: *Hesperia mystic* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 16, pl. 1, figs. 1, 2, by original designation.
- = ‡*Chaerophon* Godman, 1900
- In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 462, 474. Type-species: *Pamphila citrus* Mabilie, 1889, Naturaliste (2)3(55): 144-145, fig. 1 (= *Hesperia subreticulata* Plötz, 1883, Stettiner Entomol. Ztg. 44(4-6): 213, no. 454; synonym), by original designation. Preoccupied by *Chaerophon* Dobson, 1878, Cat. Chiropt. Brit. Mus.: 431.
- = *Poanopsis* Godman, 1900
- In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 486. Type-species: *Pamphila puxillius* Mabilie, 1891, Annls. Soc. Entomol. Belg. 35(c.r.) (18): clxx, by original designation.
- = *Yvretta* Hemming, 1935
- Stylops 4(1): 3. Type-species: *Pamphila citrus* Mabilie, 1889, Naturaliste (2)3(55): 144-145, fig. 1 (= *Hesperia subreticulata* Plötz, 1883, Stettiner Entomol. Ztg. 44(4-6): 213, no. 454; synonym), as a replacement name. Proposed to replace *Chaerophon* Godman, 1900, preoccupied (Code Articles 60.3, 67.8).

rhesus group Burns, 1994

J. Lepid. Soc. 48(1): 32-33.

230. **Polites rhesus** (W. H. Edwards, 1878)  
Field & Forest 3(7/8): 116.  
**Original Combination:** *Pamphila Rhesus*  
**Type Locality:** "Southern Colorado"; defined as "west of Pueblo, Colorado, along road to Hardscrabble Canyon" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 274-275. [Pueblo County]  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 275, fig. 10 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, figs. 44 ♀ D (paralectotype), 45 ♂ D (lectotype).  
= *axius* (Plötz, 1883)  
Stettiner Entomol. Ztg. 44(4-6): 213, no. 452; cited unpublished pl. 1448 (nachtrag).  
**Original Combination:** [*Hesperia*] *Axius*  
**Type Locality:** "Colorado"  
**Types:** Type(s) in ZMHB.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 153, determined this synonymy through an examination of the unpublished drawing made by Plötz.
231. **Polites carus** (W. H. Edwards, 1883)  
Can. Entomol. 15(2): 34.  
**Original Combination:** *Pamphila Carus*  
**Type Locality:** "West Texas"; defined as "Archer County, Texas" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 276.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 277, fig. 11 ♀ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 51, fig. 44 ♀ D.

themistocles group MacNeill, 1993

J. Lepid. Soc. 47(3): 178.

232. **Polites peckius** (W. Kirby, 1837)
- a. **Polites peckius peckius** (W. Kirby, 1837)  
In: J. Richardson, Fauna Bor.-Am. [4]: 300, no. 1, pl. 4, figs. 2 ♂ D, 3 ♂ V.  
**Original Combination:** *Hesperia Peckius*  
**Type Locality:** "taken with the preceding" [*Polyommatus Lucia*] "Lat. 54°"; suggested to be "NE U.S. or SE Canada" by Scott (2006), Papilio (n.s.) 12: 69.  
**Types:** Type(s) possibly in BMNH.  
Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 332, treated *peckius* as a synonym of *coras* (see below); however, Stanford (1981), in: Ferris and F. Brown, Butts. Rocky Mtn. States: 118, and most authors since, used *peckius* as the name for this taxon (but see Mielke (2004), in: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 77, and (2005), Cat. Amer. Hesp. 5: 1206-1209). In accordance with current usage, Stanford's arrangement is followed herein.  
= ‡*coras* (Cramer, 1775)  
Uitl. Kapellen 1(3): 51, pl. 31, fig. F ♀ D; (8): 152 (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Urbicola Coras*  
**Type Locality:** "Surinamen" "Suriname", possibly in error.  
**Types:** Type(s) probably lost.  
This name was resurrected from obscurity by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 332, who applied it as a senior synonym of *peckius*. Cramer's figure is not recognizable as this taxon, and the given locality is not within its



range as currently known. The locality could be erroneous, since many Cramer names are given this consideration; however, it is not possible to prove that the figure represents this taxon, so the name *coras* is best considered a *nomen dubium*.

= *wamsutta* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 318, fig. 141 ♂ D&V.

**Original Combination:** *Hesperia Wamsutta*

**Type Locality:** "Massachussets" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 111-112, no. 20.

**Types:** Syntypes (#26351) in MCZ.

‡"enys" (Butler, 1870)

Entomol. Mon. Mag. 7(76): 93.

**Original Combination:** [*Pamphila*] *Enys*

Butler mentioned "*Pamphila enys*" without a description or indication; a *nomen nudum*.

b. **Polites peckius surlano** Scott, 2006

Papilio (n.s.) 12: 69, pl. 4, 4th row right ♂ D&V (holotype).

**Original Combination:** *Polites peckius surlano*

**Type Locality:** "Green Mountain, Jefferson Co. Colorado"

**Types:** Holotype in BMNH.

233. **Polites sabuleti** (Boisduval, 1852)

a. **Polites sabuleti sabuleti** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2) 10(2): 316-317, no. 80; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2091 ♂ D&V, 2092 ♀ D&V.

**Original Combination:** *Hesperia Sabuleti*

**Type Locality:** "Californie" implied from the title of the paper; defined as "general region between San Francisco and Eldorado County, California" by Austin (1987), Bull. Allyn Mus. (109): 2; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23, figs. 150 ♂ D, 151 ♂ V.

b. **Polites sabuleti channelensis** J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (24): 317-318, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polites sabuleti channelensis*

**Type Locality:** "California: Santa Barbara County; Santa Rosa Island; China Camp, 50' elevation"

**Types:** Holotype in LACM.

c. **Polites sabuleti aestivalis** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (15): 201-202, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polites sabuleti aestivalis*

**Type Locality:** "California: Trinity County; Highway 3 near Dan Rice Creek, southeast of Scott Mtn. Summit"

**Types:** Holotype in LACM.

d. **Polites sabuleti tecumseh** (F. Grinnell, 1903)

Entomol. News 14(1): 11.

**Original Combination:** *Pamphila sabuleti* var. *tecumseh*

**Type Locality:** "Little Crabtree Meadow near Mt. Whitney" [California]

**Types:** Syntypes possibly in CAS.

= *chispa* (W. G. Wright, 1905)

Butts. W. Coast: 66, no. 441; 247, no. 441, pl. 31, figs. 441 ♂ D (lectotype), 441b ♀ D, 441c ♂ V.

**Original Combination:** [*Pamphila*] *Chispa*; *Pamphila Chispa* n. s.

**Type Locality:** "Sierra Nevada of California" "Sierra Nevada of Central California"

**Types:** Lectotype (#4323) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. No. 118: 40.

Austin (1987), Bull. Allyn Mus. (109): 6, discussed this name and concluded that its taxonomic status is uncertain.

e. **Polites sabuleti albamontana** Austin, 1987

Bull. Allyn Mus. (109): 6-7, figs. 2a second row ♂ ♀ D, 2b second row ♂ ♀ V (holotype is ♂).

**Original Combination:** *Polites sabuleti albamontana*

**Type Locality:** "Nevada: Esmeralda County; White Mountains, Trail Canyon, 9000', T1S, R33E, S9, 10, 17"

**Types:** Holotype in MGCL.

f. **Polites sabuleti genoa** (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 207, no. 435; cited unpublished pl. 1446 (nachtrag).

**Original Combination:** [*Hesperia*] *Genoa*

**Type Locality:** "Nevada"; suggested to be "near Genoa...Carson River Valley, Douglas Co." by Austin (1987), Bull. Allyn Mus. (109): 3.

**Types:** Type(s) may be in ZSMC, ZMHB, or lost.

g. **Polites sabuleti alkaliensis** Austin, 1987

Bull. Allyn Mus. (109): 4-5, figs. 2a third row ♂ ♀ D, 2b third row ♂ ♀ V (holotype is ♂).

**Original Combination:** *Polites sabuleti alkaliensis*

**Type Locality:** "Nevada: Washoe County; Granite Mountains, (Fortynine Mountain), Nevada State Route 8A, 1.3 mi west of Nevada State Route 34, 5950', T24N, R19E S8, located on USGS Vya, Nevada, 7.5' quadrangle"

**Types:** Holotype in MGCL.

h. **Polites sabuleti sinemaculata** Austin, 1987

Bull. Allyn Mus. (109): 7-9, figs. 2a first row ♂ ♀ D, 2b first row ♂ ♀ V (holotype is ♂).



**Original Combination:** *Polites sabuleti sinemaculata*

**Type Locality:** "Nevada: Humboldt County; Baltazor Hot Spring, Nevada State Route 140, 5.0 miles west of Denio Junction, 4213', T46N, R28E, S13 on USGS Denio, Nevada-Oregon, 15' quadrangle"

**Types:** Holotype in MGCL.

i. ***Polites sabuleti basinensis*** Austin, 1988

Bull. Allyn Mus. (120): 1.

**Original Combination:** *Polites sabuleti basinensis*

Proposed to replace *Polites sabuleti pallida* Austin, 1987, preoccupied, with the same data (Code Article 60.3).

= ~~*pallida*~~ Austin, 1987

Bull. Allyn Mus. (109): 9-10, figs. 2a bottom row ♂ ♀ D, 2b bottom row ♂ ♀ V (holotype is ♂).

**Original Combination:** *Polites sabuleti pallida*

**Type Locality:** "Nevada: Lander County; Reese River Valley, Nevada State Route 722 (formerly Nevada State Route 2), 4.0 miles (north) east of Reese River, 5720', T19N, R43E, S32 on USGS Austin, Nevada, 15' quadrangle. This is an expansive alkaline flat"

**Types:** Holotype in MGCL.

Secondarily preoccupied by *Pamphila pallida* Skinner, 1911, Entomol. News 22(9): 412.

j. ***Polites sabuleti nigrescens*** Austin, 1987

Bull. Allyn Mus. (109): 10-12, figs. 2a fourth row ♂ ♀ D, 2b fourth row ♂ ♀ V (holotype is ♂), 4a ♂ ♀ V, 4b ♂ ♀ D.

**Original Combination:** *Polites sabuleti nigrescens*

**Type Locality:** "Nevada: White Pine County; Steptoe Valley, Warm Springs, 5900', T21N, R63E, S25 on the USGS Monte Neva Hot Springs, Nevada, 7.5' quadrangle. This is a flat valley bottom"

**Types:** Holotype in MGCL.

k. ***Polites sabuleti chusca*** (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 4(4): 346.

**Original Combination:** *Hesperia Chusca*

**Type Locality:** "Arizona"; suggested to be "probably northern Mohave County, Arizona" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 55.

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 18 ♂ D, and F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 54, fig. 8 ♂ D&V.

= *comstocki* Gunder, 1925

Entomol. News 36(1): 7-8, no. 12, pl. 1, figs. 4 ♂ D, 4a ♂ V, 5 ♀, 5a ♀ V.

**Original Combination:** *Polites sabuleti* var. *comstocki*

**Type Locality:** "El Centro, Imperial County, California"

**Types:** Holotype in AMNH.

l. ***Polites sabuleti ministigma*** Scott, 1981

Papilio (n.s.) 1: 9.

**Original Combination:** *Polites sabuleti ministigma*

**Type Locality:** "8 mi. W. Crestone, Saguache Co., Colo." [Colorado]

**Types:** Holotype in LACM.

234. ***Polites draco*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 274-275, no. 17.

**Original Combination:** *Pamphila Draco*

**Type Locality:** "Colorado"; defined as "Twin Lakes, Lake Co., Colorado" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 49, fig. 4 ♂ D&V; figured by W. Holland (1931), Butt. Book: pl. 53, figs. 15 ♂ D (lectotype), 16 ♀ D (paralectotype).

MacNeill (1993), J. Lepid. Soc. 47(3): 180-181, detailed the species-level status of this taxon.

235. ***Polites mardon*** (W. H. Edwards, 1881)

a. ***Polites mardon mardon*** (W. H. Edwards, 1881)

Papilio 1(4): 43, 47-48, no. 6.

**Original Combination:** *Pamphila mardon*

**Type Locality:** "Mount Hood"; corrected to "the small prairies numerous near Puget Sound, Washington Territory. It was abundant near Tenino" by Morrison (1883), Papilio 3(2): 43; further defined as "Tenino Prairie, Thurston County, Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 53.

**Types:** Lectotype in CMNH, designated by W. Holland (1898), Butt. Book: pl. 47, fig. 26 ♂ D, as "type"; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 54, fig. 7 ♂ D&V.

b. ***Polites mardon klamathensis*** Mattoon, J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (65): 768-770, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polites mardon klamathensis*

**Type Locality:** "Oregon: Jackson County; Soda Mountain Road between first and second power transmission line crossing, 3.0 to 3.8 road miles south of Highway 66 at Greensprings summit, 4,500' to 4,800' elevation, T40S-R3E S9 Southern Cascade Range, ca. 12 airline miles southeast of Ashland"

**Types:** Holotype in LACM.

236. ***Polites themistocles*** (Latreille, [1824])

a. ***Polites themistocles themistocles*** (Latreille, [1824])

Ency. méth. 9(Ins.) (2): (723), 769, no. 115.

**Original Combination:** *Hesperia Themistocles*

**Type Locality:** "l'Amerique méridionale"

**Types:** Type(s) possibly in MNHP or BMNH.

N. Riley (1926), Trans. Entomol. Soc. Lond. 74(2): 239, claimed that *themistocles* was proposed to replace *Papilio taumas* Fabricius, 1787; if so, then the type data for *taumas* would replace those for *themistocles*.

= *†taumas* (Fabricius, 1787)

Mantissa Ins. 2: 84, no. 746.

**Original Combination:** *P[apilio]. P[lebejii]. U[rbicola]. Taumas*

**Type Locality:** "America boreali. Dom. Boeber"

**Types:** Syntype in ZMUC.

Preoccupied by *Papilio taumas* Hufnagel, 1766, Berl. Mag. 2: 62 (Code Article 58.11).

= *†phocion* (Fabricius, 1798)

Entomol. Syst. Suppl.: 431.

**Original Combination:** *Hesperia U[rbicola]. Phocion*

**Type Locality:** "in America meridionali. Dom. v. Rohr"

**Types:** Syntype in ZMUC.

Preoccupied by *Hesperia phocion* Fabricius, 1793, Entomol. Syst. 3(1): 335.

Rohr collected in the West Indies and South America. The syntype should be examined for the possibility that it represents *Polites baracoa* (Lucas, 1857).

= *cernes* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (26): pl. 76, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Hesperia Cernes*

**Type Locality:** Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

**Types:** Types are the specimens illustrated by Émile Blanchard, probably from Boisduval's collection. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 328, stated that the "type" is in the BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

= *ahaton* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 317, fig. 140 ♀ D&V.

**Original Combination:** *Hesperia Ahaton*

**Type Locality:** "Milton" [Norfolk County, Massachusetts]

**Types:** Syntypes in MCZ or lost.

b. *Polites themistocles turneri* H. Freeman, 1944

Entomol. News 55(2): 47-48.

**Original Combination:** *Polites themistocles turneri*

**Type Locality:** "Jesmond, British Columbia"

**Types:** Holotype in AMNH.

baracoa group MacNeill, 1993

J. Lepid. Soc. 47(3): 177-178.

237. *Polites baracoa* (Lucas, 1857)

a. *Polites baracoa baracoa* (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 650.

**Original Combination:** *Hesperia Baracoa*

**Type Locality:** "dans l'île de Cuba"

**Types:** Syntype in MNHP.

= *amadis* (Herrich-Schäffer, 1863)

Corresp.-Bl. zool.-min. Ver. Regensburg 17(9): 142.

**Original Combination:** *Pamphila Amadis*

**Type Locality:** "Cuba" implied from the title of the paper.

**Types:** Syntype (#7149) in ANSP.

= *myus* (French, 1885)

Can. Entomol. 17(1): 33-34.

**Original Combination:** *Pamphila myus*

**Type Locality:** "Florida"

**Type:** Location of type(s) not known (USNM?).

origenes group MacNeill, 1993

J. Lepid. Soc. 47(3): 178.

238. *Polites origenes* (Fabricius, 1793)

a. *Polites origenes origenes* (Fabricius, 1793)

Entomol. Syst. 3(1): 328, no. 245; cited Jones' Icones 6: pl. 74, fig. 2; figured by Donovan (1800), Epit. Ins. India: unnumbered plate D (a copy from Jones Icones).

**Original Combination:** *H[esperia]. U[rbicola]. Origenes*

**Type Locality:** "in Indiis Dom. Jones"

**Types:** Type(s) lost, name based on Jones' figure.

This name was resurrected from obscurity by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 328, based on the unpublished figures in "Jones Icones" in OMU, and has generally been used since. L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2):

38, questioned Evans' action, but used *origenes* with reservations. While the name *origenes* qualified as a "*nomen oblitum*" under the edition of the Code in force in 1955, it is retained here in the interest of stability.

= *manataaquia* (Scudder, 1863)

Proc. Essex Inst. 3: 175-176, no. 74; figured by Scudder (1889), Butts. E. U. S. & Can. 3(12): pl. 10, fig. 5 ♂ D&V, 11 ♀ D.

**Original Combination:** *Hesperia Manataaquia*

**Type Locality:** "Massachusetts...Georgia"

**Types:** Syntypes (#15303) in MCZ.

b. ***Polites origenes rhena*** (W. H. Edwards, 1878)

Field & Forest 3(7/8): 115-116.

**Original Combination:** *Pamphila Rhena*

**Type Locality:** "Southern Colorado"; defined as "vicinity of Pueblo, Pueblo Co., Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 47.

**Types:** Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 47, fig. 3 ♂ D&V.

= *alcina* (Skinner, 1893)

Entomol. News 4(6): 212-213; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 25 ♂ D.

**Original Combination:** *Pamphila alcina*

**Type Locality:** "Colorado"

**Types:** Syntypes (#7090) in ANSP and FMNH; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 5 ♂ D.

239. ***Polites mystic*** (W. H. Edwards, 1863)

a. ***Polites mystic mystic*** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[1]: 14, 15-16, no. 3, pl. 1, figs. 3 ♂ D, 4 ♀ D&V.

**Original Combination:** *Hesperia Mystic*

**Type Locality:** "Connecticut; Michigan; Canada West"; neotype from "Hunter, Greene Co., New York."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 51, fig. 5 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 22 ♂ D.

This name was also proposed by Scudder (1863), Proc. Essex Inst. 3: 172, and was credited to Scudder by many subsequent authors. The question of authorship was finally settled by F. Brown (1980), J. Lepid. Soc. 34(1): 74-75.

= *†"weetamoo"* (Scudder, 1889)

Butts. E. U. S. & Can. 2(11): 1707.

**Original Combination:** *Thymelicus mystic weetamoo* melanic variety

**Type Locality:** Not stated.

**Types:** "Holotype" was from Lintner and may be in NYSM.

= *†"nubs"* (Scudder, 1889)

Butts. E. U. S. & Can. 2(11): 1707.

**Original Combination:** *Thymelicus mystic nubs*

**Type Locality:** Not stated.

**Types:** "Holotype" may be in MCZ.

While the text clearly indicates that this taxon was described as an individual variant, it was proposed as a trinomial and might be considered available.

b. ***Polites mystic dacotah*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 277, no. 21.

**Original Combination:** *Hesperia Dacotah*

**Type Locality:** "Colorado"; defined as "Georgetown, Clear Creek County, Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 52.

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 23 ♂ D, and F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 51, fig. 6 ♂ D&V.

Layberry *et al.* (1998), Butts. Can.: 61, did not recognize this as a subspecies-level taxon.

= *pallida* (Skinner, 1911)

Entomol. News 22(9): 412.

**Original Combination:** *Pamphila mystic pallida*

**Type Locality:** "Volga, South Dakota" [Brookings County]

**Types:** Syntypes (#7091) in ANSP.

240. ***Polites sonora*** (Scudder, 1872)

a. ***Polites sonora siris*** (W. H. Edwards, 1881)

Papilio 1(4): 43, 47, no. 7.

**Original Combination:** *Pamphila siris*

**Type Locality:** "Mount Hood"; corrected to "the small prairies numerous near Puget Sound, Washington Territory. It was abundant near Tenino" by Morrison (1883), Papilio 3(2): 43; further defined as "Tenino Prairie, Thurston Co., Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 46.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 382, pl. 53, fig. 9 ♂ D, as "type"; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 46, fig. 2 ♂ D&V.

b. ***Polites sonora sonora*** (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 78, no. 3.

**Original Combination:** *O[chlodes]. Sonora*

**Type Locality:** "Sierra Nevada (Henry Edwards), California"

**Types:** Syntype (#15826) in MCZ; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 10 ♂ D, 11 ♀ V.



- c. **Polites sonora flavaventris** Austin, 1998  
Syst. W. N. Am. Butts. (43): 525, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Polites sonora flavaventris*  
**Type Locality:** "Nevada: Humboldt County; Pine Forest Range, Blue Lake Road, 6.7 road miles west of Nevada state route 140, Alta Creek Basin, 1829 m, T45N R30E S7 on USGS Denio, Nev.-Ore. 15' quadrangle"  
**Types:** Holotype in MGCL.
- d. **Polites sonora longinqua** Austin, 1998  
Syst. W. N. Am. Butts. (43): 525-526, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Polites sonora longinqua*  
**Type Locality:** "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2620 m, T1S R33E S10 on USGS Davis Mountain, Nev.-Calif. 15' quadrangle"  
**Types:** Holotype in MGCL.
- e. **Polites sonora utahensis** (Skinner, 1911)  
Entomol. News 22(9): 413.  
**Original Combination:** *Pamphila sylvanoides utahensis*  
**Type Locality:** "Park City, Utah" [Summit County]  
**Types:** Syntypes (#7099, labeled as "holotype") in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 13 ♂ V.

vibex group MacNeill, 1993

J. Lepid. Soc. 47(3): 178.

241. **Polites vibex** (Geyer, 1832)

- a. **Polites vibex vibex** (Geyer, 1832)  
*In:* Hübner, Zutr. Samml. exot. Schmett. 4: pl. [118], figs. 685 ♂ D, 686 ♂ V [1826]; (text): 22, no. 343 (1832, name given).  
**Original Combination:** *Thymelicus Vibex*  
**Type Locality:** "West Indies"  
**Types:** Type probably lost.  
Hübner [1819], Verz. bekannt. Schmett. (7): 113, mentioned *T. vibex* without a description or indication; a *nomen nudum*.  
= *brettus* (Boisduval & Le Conte, [1837])  
Hist. Lépid. Amér. sept. (25): pl. 75, figs. 3 ♀ D, 4 ♀ D, 5 ♀ V.  
**Original Combination:** *Hesperia Brettus*  
**Type Locality:** Not stated; "l'Amérique septentrionale" implied from the title of the book.  
**Types:** Types are the specimens illustrated by Émile Blanchard, probably from Boisduval's collection, possibly in MNHP or BMNH.
- = *wingina* (Scudder, 1863)  
Proc. Essex Inst. 3: 173-174, no. 71.  
**Original Combination:** *Hesperia Wingina*  
**Type Locality:** "southern portions of N. England"  
**Types:** Syntypes in MCZ.
- = *morganta* (Plötz, 1883)  
Stettiner Entomol. Ztg. 44(4-6): 203, no. 426; cited unpublished pl. 1444 (nachtrag).  
**Original Combination:** [*Hesperia*] *Morganta*  
**Type Locality:** "Süd-Amerika", in error; corrected to "North America" by Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 153.  
**Types:** Holotype may be in ZSMC or lost.  
Godman (1907), *ibid.*, determined this synonymy through an examination of the unpublished drawing made by Plötz.
- = *unna* (Plötz, 1883)  
Stettiner Entomol. Ztg. 44(4-6): 204, no. 429; cited unpublished pl. 637.  
**Original Combination:** [*Hesperia*] *Unna*  
**Type Locality:** "Philadelphia" [Philadelphia County, Pennsylvania]  
**Types:** Holotype may be in ZSMC or lost.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy (under *brettus*) through an examination of the unpublished drawing made by Plötz.  
‡"margarita" (Draudt, 1923)  
*In:* Seitz, Grossschmett. Erde 5(332): 931.  
**Original Combination:** [*Thymelicus*] *margarita*  
Draudt cited this as a Plötz name in the synonymy of *brettus*, without a description or indication; a *nomen nudum*.
- b. **Polites vibex brettoides** (W. H. Edwards, 1883)  
Papilio 3(4): 71-72.  
**Original Combination:** *Pamphila Brettoides*  
**Type Locality:** "West Texas...Graham Mountains, Arizona"; lectotype from "Texas"; defined as "vicinity of Archer County, Texas" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 44.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 384, pl. 53, fig. 26 ♂ D, as "type"; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 45, fig. 1 ♂ D&V.
- c. **Polites vibex praeceps** (Scudder, 1872)  
4th Ann. Rep. Peabody Acad. Sci. (1871): 79, no. 2.

**Original Combination:** *H[edone]. praeceps*

**Type Locality:** "Teluantepec" [Oaxaca, Mexico]

**Types:** Syntype (#15313) in MCZ.

= *sulfurina* (Mabille, 1878)

Petites Nouv. Entomol. 2(197): 233-234, no. 39.

**Original Combination:** *P[amphila]. sulfurina*

**Type Locality:** "Mexicanam"; also mentioned specimens from "Cayenna" and "Venezuela."

**Types:** Syntypes in BMNH.

= *lunida* (Möschler, 1879)

Verh. zool.-bot. Ges. Wien 28: 217-218, no. 23.

**Original Combination:** *Pamphila Lunida*

**Type Locality:** "Colombien"

**Types:** Syntypes in ZMHB.

= *phormio* (Mabille, 1878)

Petites Nouv. Entomol. 2(197): 233, no. 38.

**Original Combination:** *Pamphila Phormio*

**Type Locality:** "Para, Brasiliae"

**Types:** Syntype(s) in BMNH.

= *golenia* (Möschler, 1879)

Verh. zool.-bot. Ges. Wien 28: 218, no. 21.

**Original Combination:** *Pamphila Golenia*

**Type Locality:** "Colombien"

**Types:** Syntypes in ZMHB.

= *zenckei* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 196, no. 402; cited unpublished pl. 1437 (nachtrag).

**Original Combination:** [*Hesperia*] *Zenckei*

**Type Locality:** "Mexico"

**Types:** Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 152, determined this synonymy (as *vibex*) through an examination of the unpublished drawing made by Plötz.

= *clara* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 203, no. 425; cited unpublished pl. 635.

**Original Combination:** [*Hesperia*] *Clara*

**Type Locality:** "Californien", presumably in error.

**Types:** Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy (as *brettus*) through an examination of the unpublished drawing made by Plötz.

= *stigma* (Skinner, 1896)

Can. Entomol. 28(7): 188.

**Original Combination:** *Pamphila stigma*

**Type Locality:** "southern border of New Mexico and S.-W. Texas"

**Types:** Syntypes (#7098) in ANSP and FMNH; figured by Skinner (1900), Entomol. News 11(4): pl. 2, figs. 15 ♂ D, 16 ♂ V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 28 ♂ D.

= *hypozona* (Dyar, 1918)

Proc. U. S. Nat. Mus. 54(2239): 339-340.

**Original Combination:** *Lerema hypozona*

**Type Locality:** "Sierra de Guerrero, Mexico"

**Types:** Holotype (#21216) in USNM.

= *combinata* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 206, under no. 433.

**Original Combination:** [*Hesperia*] *Golenia* = *Combinata*

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy (as *vibex*) through an examination of an unpublished drawing (pl. 636, from "Colombia") made by Plötz. This name was listed without a description or indication; a *nomen nudum*.

#### Genus *Wallengrenia* Berg, 1897

An. Mus. Nac. (Buenos Aires) (2)5(A7): 254-255. Type-species: *Hesperia premnas* Wallengren, 1860, Wien. Entomol. Montaschr. 4(2): 38, no. 20, by original designation. The arrangement here follows Burns (1985), Smithsonian Contrib. Zool. (423): 1-39.

= *Catia* Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(156): 462, 481. Type-species: *Hesperia drury* Latreille, [1824], Ency. méth. 9(Ins.) (2): (723), 767, no. 110 (= *Papilio otho* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 31-32, pl. 16; subspecies), by original designation.

242. *Wallengrenia otho* (J. E. Smith, 1797)

a. *Wallengrenia otho otho* (J. E. Smith, 1797)

In: Smith and Abbot, Ins. Georgia 1: 31-32, pl. 16, figs. ♂ D, ♂ V, ♀ D, larva, pupa.

**Original Combination:** *Papilio Otho*

**Type Locality:** "Georgia" implied from the notes to the original drawing by John Abbot.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost.

= *pustula* (Geyer, 1832)

*In:* Hübner, Zutr. Samml. exot. Schmett. 4: pl. [108], figs. 625 ♂ D, 626 ♂ V [1826]; (text): 11, no. 313 (1832, name given).

**Original Combination:** *Thymelicus Pustula*

**Type Locality:** "Georgien"; probably based on a specimen from John Abbot.

**Types:** Type(s) probably lost.

Hübner [1819], Verz. bekannt. Schmett. (7): 113, listed *T. pustula* without a description or indication; a *nomen nudum*.  
 ‡"lacordairii" (Godman, 1900)

*In:* Godman and Salvin, Biol. centr.-amer. Lepid. Rhop. 2(156): 483.

**Original Combination:** *Catia pustula* (= *Pamphila lacordairii* Boisdu)

Godman introduced the name *lacordairii* in the synonymy of *pustula* without a description or indication; a *nomen nudum*.

**b. Wallengrenia otho clavus** (Erichson, [1849])

*In:* Schomburgk, Reisen Brit-Guiana 3: 603-604.

**Original Combination:** *Hesperia clavus*

**Type Locality:** "British Guiana" implied from the title of the work.

**Types:** Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 68.

Burns (1994), J. Lepid. Soc. 48(4): 294, determined this synonymy and suggested that *clavus* may be a species-level taxon.

= *curassavica* (Snellen, 1887)

Tijdschr. Entomol. 30: 28-30, pl. 2, figs. 3, 3a ♂ D&V.

**Original Combination:** *Hesperia Curassavica*

**Type Locality:** "Curaçao" implied from the title of the paper. [Netherlands Antilles]

**Types:** Syntype(s) in RMNH.

= *helva* (Möschler, 1877)

Verh. zool.-bot. Ges. Wien 26: 336, pl. 4, fig. 20.

**Original Combination:** *Pamphila helva*

**Type Locality:** "aus dem Innern Suriname"

**Types:** Lectotype in ZMHB, designated by Mielke and Casagrande (2002), Revta. bras. Zool. 19(supl. 1): 68.

= *winslowi* (Weeks, 1906)

Psyche 13(2/3): 69-70; figured by Weeks (1911), Ill. diurn. Lepid. 2: pl. 10, fig. 1 ♂ D&V.

**Original Combination:** *Polites winslowi*

**Type Locality:** "Suapure, Venezuela"

**Types:** Holotype (#16724) in MCZ.

= *jobrea* (Dyar, 1918)

Proc. U. S. Nat. Mus. 54(2239): 338-339.

**Original Combination:** *Catia jobrea*

**Type Locality:** "Sierra de Guerrero, Mexico"

**Types:** Holotype (#21212) in USNM.

243. **Wallengrenia egeremet** (Scudder, 1863)

Proc. Essex Inst. 3: 174-175, no. 73.

**Original Combination:** *Hesperia Egeremet*

**Type Locality:** "Mass....Georgia...Western States...N. England"

**Types:** Syntype (#15827) in MCZ.

= *ursa* (Worthington, 1880)

Can. Entomol. 12(3): 49, no. 1.

**Original Combination:** *Pamphila ursa*

**Type Locality:** "Lake Co., Ind., near Ills. Line"

**Types:** Location of type(s) not known, possibly in USNM.

= *cinna* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 58, no. 377; cited unpublished pl. 598.

**Original Combination:** [*Hesperia*] *Cinna*

**Type Locality:** "Union" [United States]

**Types:** Holotype may be in ZSMC or lost.

Genus **Pompeius** Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 301, 335. Type-species: *Hesperia pompeius* Latreille, [1824], Ency. méth. 9(Ins.) (2): (722), 765, no. 105, by original designation.

244. **Pompeius verna** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 57, no. 6.

**Original Combination:** *Pamphila verna*

**Type Locality:** "Illinois"; neotype from "Perryton Township, Mercer County, Illinois."



- Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 57, fig. 9 ♂ D&V.
- = *pottawattomie* (Worthington, 1880)  
Can. Entomol. 12(3): 50, no. 2.  
**Original Combination:** *Pamphila pottawattomie*  
**Type Locality:** "neighborhood of the Chicago massacre, Cook Co., Ill....Lake Co., Ind."  
**Types:** Syntype in USNM.
- = *vetulina* (Plötz, 1882)  
Stettiner Entomol. Ztg. 44(1-3): 58, no. 377; cited unpublished pl. 597.  
**Original Combination:** [*Hesperia*] *Vetulina*  
**Type Locality:** Not stated.  
**Types:** Holotype may be in ZSMC or lost.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz.
- = *sigida* (Mabille, 1891)  
Annls. Soc. Entomol. Belg. 35(c.r.) (18): clxxvii.  
**Original Combination:** *Pamphila Sigida*  
**Type Locality:** "Australie", in error.  
**Types:** Holotype in BMNH.
- = *sequoyah* (H. Freeman, 1942)  
Entomol. News 53(4): 104.  
**Original Combination:** *Polites verna sequoyah*  
**Type Locality:** "Hope Hill Farm, Faulkner County, Arkansas and Little Rock, Arkansas"  
**Types:** Holotype in AMNH.

#### Genus *Atalopedes* Scudder, 1872

- 4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia huron* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 16-17, no. 4, pl. 1, figs. 1, 2 (= *Hesperia campestris* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 316; subspecies), by original designation. Burns (1989), J. Lepid. Soc. 43(1): 11-32, suggested that *Atalopedes* and *Hesperia* are closely related.
- = *Pansydia* Scudder, 1872  
4th Ann. Rep. Peabody Acad. Sci. (1871): 81. Type-species: *Hesperia mesogramma* Latreille, [1824], in: Ency. méth. 9(Ins.) (2): (722), 765, no. 106, by original designation.
245. ***Atalopedes campestris*** (Boisduval, 1852)
- a. ***Atalopedes campestris campestris*** (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2)10(2): 316, no. 79; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2090 ♂ D&V.  
**Original Combination:** *Hesperia campestris*  
**Type Locality:** "dans les lieux arides"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 22.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 22, figs. 147 ♂ D, 148 ♂ V.  
= *tenebriosus* Austin & J. Emmel, 1998  
Syst. W. N. Am. Butts. (42): 504, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.  
**Original Combination:** *Atalopedes campestris tenebriosus*  
**Type Locality:** "California: Humboldt County; Eureka"  
**Types:** Holotype in LACM.  
A. Warren (2005), Butts. Ore.: 45, determined this synonymy.
- b. ***Atalopedes campestris huron*** (W. H. Edwards, 1863)  
Proc. Entomol. Soc. Philad. 2[1]: 14, 16-17, no. 4, pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V.  
**Original Combination:** *Hesperia Huron*  
**Type Locality:** "Illinois, Georgia, Texas, Washington, D.C."; neotype from "Evanston, Illinois." [Cook County]  
**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 59, fig. 10 ♂ D&V. Layberry *et al.* (1998), Butts. Can.: 65, did not recognize this as a subspecies-level taxon.  
= *kedema* (Butler, 1870)  
Trans. Entomol. Soc. Lond. (4)1870[18] (4): 504, no. 3.  
**Original Combination:** *Pamphila Kedema*  
**Type Locality:** Not stated.  
**Types:** Holotype in BMNH.  
= *augustus* (Plötz, 1883)  
Stettiner Entomol. Ztg. 44(4-6): 213, no. 453; cited unpublished pl. 676.  
**Original Combination:** [*Hesperia*] *Augustus*  
**Type Locality:** "Brasilien"  
**Types:** Type(s) may be in ZSMC or lost.  
= *amphissa* (Plötz, 1883)  
Stettiner Entomol. Ztg. 44(4-6): 221, no. 476; cited unpublished pl. 667.  
**Original Combination:** [*Hesperia*] *Amphissa*  
**Type Locality:** "Venezuela"

**Types:** Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.

#### Genus *Atrytone* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Hesperia iowa* Scudder, 1868, Proc. Boston Soc. Nat. Hist. 11: 401 (= *Hesperia arogos* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (26): pl. 76, figs. 3-5; subspecies), by original designation.

#### 246. *Atrytone arogos* (Boisduval & Le Conte, [1837])

##### a. *Atrytone arogos arogos* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (26): pl. 76, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D.

**Original Combination:** *Hesperia Arogos*

**Type Locality:** Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 340, noted that the "type" is in the BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

= *mutius* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 199, no. 413; cited unpublished pl. 625.

**Original Combination:** [*Hesperia*] *Mutius*

**Type Locality:** "Georgia"

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.

##### b. *Atrytone arogos iowa* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.

**Original Combination:** *Hesperia iowa*

**Type Locality:** "Iowa"; defined as "Denison and New Jefferson, Iowa" by Scudder [1870], Trans. Chicago Acad. Sci. 1 (2): 330. [Denison, Crawford County; Jefferson, Greene County]

**Types:** Syntype (#15307) in MCZ.

#### Genus *Problema* Skinner & R. Williams, 1924

Trans. Am. Entomol. Soc. 50(1): 62. Type-species: *Pamphila byssus* W. H. Edwards, 1880, Can. Entomol. 12(11): 224, by original designation.

#### 247. *Problema byssus* (W. H. Edwards, 1880)

##### a. *Problema byssus byssus* (W. H. Edwards, 1880)

Can. Entomol. 12(11): 224-225.

**Original Combination:** *Pamphila Byssus*

**Type Locality:** "Indian River, Florida" [Brevard County]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 63, fig. 14 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 41, fig. 20 ♀ D (paralectotype), pl. 53, fig. 28 ♂ D (lectotype).

##### b. *Problema byssus kumskaka* (Scudder, 1887)

Can. Entomol. 19(3): 45-48.

**Original Combination:** *Atrytone Kumskaka*

**Type Locality:** "Iowa...Western States"; stated to be "Denison, Iowa" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 42. [Crawford County]

**Types:** Syntype (#10756) in MCZ; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 39 ♂ D, supposedly sent to W. H. Edwards by Scudder.

#### 248. *Problema bulenta* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (26): pl. 67, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D, [4] larva, [5] pupa.

**Original Combination:** *Hesperia Bulenta*

**Type Locality:** Not stated (there is no text); "Georgia" implied from other drawings of the species by John Abbot.

**Types:** Types were the specimens that John Abbot painted and are probably lost.

F. Jones (1926), Entomol. News 37(7): 193-197, pl. 9, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V, fig. of ♂ genitalia, detailed the rediscovery of this species, and provided the first written description of the taxon.

#### Genus *Poanes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 76. Type-species: *Hesperia massasoit* Scudder, 1863, Proc. Essex Inst. 3: 171, no. 65, by original designation. Burns (1992), J. Lepid. Soc. 46(1): 1-23, discussed the probability that this genus is polyphyletic, and created species groups. The first group includes *hobomok*, *zabulon* and *taxiles*, while the second group includes *massasoit*, *viator*, *aaroni* and *yehl* (*massasoit* may belong in its own group). Burns also transferred *melane* to *Poanes* from *Paratrytone*, and noted that at least some *Poanes* species may belong in *Ochlodes*.

= *Phycanassa* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 77. Type-species: *Hesperia viator* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4(1):

202-203, pl. 1, fig. 5, by original designation.

= ‡*Paratrytone* Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 136. Type-species: *Pamphila howardi* Skinner, 1896, Can. Entomol. 28(7): 187 (= *Pamphila aaroni* Skinner, 1890, Entomol. News 1(1): 6; subspecies), by original designation. Preoccupied by *Paratrytone* Godman, 1900, in: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 487.

249. **Poanes hobomok** (T. Harris, 1862)

a. **Poanes hobomok hobomok** (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 313-314, fig. 137 ♂ D&V.

**Original Combination:** *Hesperia Hobomok*

**Type Locality:** "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 15.

**Types:** Syntypes (#26348) in MCZ.

= *pocahontas* (Scudder, 1863)

Proc. Essex Inst. 3: 171-172, no. 67; figured by Scudder (1889), Butts. E. U. S. & Can. 3(12): pl. 10, fig. 9 ♀ D&V.

**Original Combination:** *Hesperia Pocahontas*

**Type Locality:** "Mass. and Conn." [Massachusetts and Connecticut]

**Types:** Syntypes (#15825) in MCZ and CMNH.

= *quadaquina* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 381, no. 76.

**Original Combination:** *Hesperia Quadaquina*

**Type Locality:** "West Roxbury, Mass....Quincy, Mass....Guilford, Conn....New Haven, Conn."

**Types:** Syntype (#15824) in MCZ; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 44 ♀ D.

= *ridingsii* F. Chermock & R. Chermock, 1940

Can. Entomol. 72(4): 83.

**Original Combination:** *Poanes hobomok* form *ridingsii*

**Type Locality:** "Riding Mtns., Manitoba"

**Types:** Holotype in CNC.

This name is considered available from its original description, since Klots (1951), Field Guide Butts. N. Am.: 250, treated it as a subspecies-level taxon (Code Article 45.6.4.1).

= ‡"alfaratta" W. Holland, 1930

Ann. Carnegie Mus. 19(3): 159.

**Original Combination:** *Poanes hobomok* var. ♀ *alfaratta*

**Type Locality:** "Kansas"

**Types:** "Holotype" in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 45 ♀ D.

= ‡"friedlei" F. Watson, 1920

J. N. Y. Entomol. Soc. 28(3-4): 232.

**Original Combination:** *Poanes hobomok* f. ♀ *pocahontas* ab. *friedlei*

**Type Locality:** "Van Cortland Park, New York City, N. Y." [Bronx County, New York]

**Types:** "Holotype" in AMNH.

= ‡"pallida" F. Watson, 1921

J. N. Y. Entomol. Soc. 29(3-4): 172-173.

**Original Combination:** *Poanes hobomok* ab. *pallida*

**Type Locality:** "near Dunwoodie, Westchester County, New York"

**Types:** "Holotype" in AMNH.

b. **Poanes hobomok monofascies** Gatrell, 2002

Tax. Rep. Int. Lepid. Surv. 3(8): 6-7, figs. 17 ♂ D, 19 ♂ V (holotype); 18 ♀ D, 20 ♀ V, 21 ♂ D, 23 ♂ V, 22 ♀ D, 24 ♀ V, 25 ♂ D, 27 ♂ V, 26 ♀ D, 28 ♀ V.

**Original Combination:** *Poanes hobomok monofascies*

**Type Locality:** "North Carolina: Macon County, near summit of Chestnut Mountain, 3,500', FS Rd. 4563"

**Types:** Holotype in LACM.

c. **Poanes hobomok wetona** Scott, 1981

Papilio (n.s.) 1: 9.

**Original Combination:** *Poanes hobomok wetona*

**Type Locality:** "Sand Gulch S. Greenwood, 7200', Custer Co., Colo." [Colorado]

**Types:** Holotype in LACM; figured by Gatrell (2002), Tax. Rep. Int. Lepid. Surv. 3(8): figs. 1 ♂ D, 2 ♂ V.

250. **Poanes zabulon** (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (26): pl. 76, figs. 6 ♂ D, 7 ♂ V.

**Original Combination:** *Hesperia Zabulon*

**Type Locality:** Not stated (there is no text); "l'Amérique septentrionale" implied from the title of the book.

**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 348, noted that the "type" is in the BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

= *erratica* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 210, no. 446; cited unpublished pl. 656.

**Original Combination:** [*Hesperia*] *Erratica*



**Type Locality:** “Guatemala”

**Types:** Type(s) in ZMHB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.

‡“ogeechensis” (Scudder, 1889)

Butts. E. U. S. & Can. 2(11): 1617.

**Original Combination:** [*Atrytone zabulon*] = *Papilio ogeecheensis* Abb.

This name was mentioned in the synonymy of *Atrytone zabulon* without a description or indication; a *nomen nudum*.

251. **Poanes taxiles** (W. H. Edwards, 1881)

Trans. Am. Entomol. Soc. 9(1): 5-6.

**Original Combination:** *Pamphila Taxiles*

**Type Locality:** “Arizona...South Colorado...Nevada...Oak Creek Canon, South Colorado”; defined as “Oak Creek Canyon, Custer County, Colorado” by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 73-74.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 74, fig. 22 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 47, fig. 31 ♂ D.

= *psaumis* (Godman, 1900)

In: Godman and Salvin, Biol. centr-amer., Lepid. Rhop. 2(157): 489, no. 1; 3: pl. 94, figs. 2 ♀ D, 3 ♀ V.

**Original Combination:** *Phycanassa psaumis*

**Type Locality:** “Mexico, Bolaños in Jalisco”

**Types:** Syntype in BMNH.

252. **Poanes massasoit** (Scudder, 1863)

a. **Poanes massasoit massasoit** (Scudder, 1863)

Proc. Essex Inst. 3: 171, no. 65.

**Original Combination:** *Hesperia Massasoit*

**Type Locality:** “Carver, Mass.” [Plymouth County]

**Types:** Syntype (#15305) in MCZ.

= *suffusa* (Laurent, [1891])

Entomol. News 3(1): 15-16.

**Original Combination:** *Pamphila massasoit* var. *suffusa*

**Type Locality:** “around Philadelphia...in low meadow- or swamp-lands” [Philadelphia County, Pennsylvania]

**Types:** Syntype (#7172) in ANSP.

= *hughi* A. Clark, 1931

Ann. Carnegie Mus. 21(1): 7-9, fig. 1 ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Poanes massasoit hughi*

**Type Locality:** “Beltsville, Maryland; bog between the railway station and the experiment farm of the Bureau of Animal Industry, U. S. Department of Agriculture” [Prince Georges County]

**Types:** Holotype in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): firtspe. fig. 11 ♂ V, pl. 26, fig. c ♂ D.

b. **Poanes massasoit chermocki** W. Anderson & Simmons, 1976

J. Lepid. Soc. 30(1): 19-20, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Poanes massasoit chermocki*

**Type Locality:** “New Bridge, Dorchester County, Maryland”

**Types:** Holotype in USNM.

253. **Poanes viator** (W. H. Edwards, 1865)

a. **Poanes viator viator** (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201, 202-203, no. 5, pl. 1, fig. 5 ♂ D&V.

**Original Combination:** *Hesperia viator*

**Type Locality:** “Northern Illinois...New Orleans”; neotype from “Goose Lake Prairie, Grundy Co., Ill.”

**Types:** Neotype in INHS, designated by Shapiro (1971), J. Res. Lepid. 9(2): 110, figs. 1a ♂ D, 1b ♂ V; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 72, fig. 21 ♂ D&V.

b. **Poanes viator zizaniae** Shapiro, 1971

J. Res. Lepid. 9(2): 110, 113, figs. 2 a ♂ D, b ♂ D, c ♂ D, d ♀ D, e ♂ D (holotype), f ♀ D, g ♂ V, h ♂ V, i ♂ V, j ♀ V.

**Original Combination:** *Poanes viator zizaniae*

**Type Locality:** “Tinicum Wildlife Preserve, Philadelphia County, Pennsylvania”

**Types:** Holotype in CUIC.

254. **Poanes aaroni** (Skinner, 1890)

a. **Poanes aaroni aaroni** (Skinner, 1890)

Entomol. News 1(1): 6-7; figured by [Skinner] (1892), Entomol. News 3(3): 49, pl. 2, figs. 7 ♂ D, 8 ♂ V, and (1897), Entomol. News 8(6): pl. 7, 4th row ♂ D&V.

**Original Combination:** *Pamphila aaroni*

**Type Locality:** “Cape May, N. J.” implied from the title of the paper. [Cape May County, New Jersey]

**Types:** Lectotype (#7093) in ANSP, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(2): 6.

b. **Poanes aaroni minimus** Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 9, figs. 13 ♂ D, 18 ♂ V (holotype); 14 ♀ D, 19 ♀ V.

**Original Combination:** *Poanes aaroni minimus*

**Type Locality:** “South Carolina: Orangeburg County, Bull Swamp”

**Types:** Holotype in CMNH.

- c. **Poanes aaroni howardi** (Skinner, 1896)  
Can. Entomol. 28(7): 187.  
**Original Combination:** *Pamphila Howardi*  
**Type Locality:** "Florida...Georgiana, on the Indian River" [Brevard County]  
**Types:** Lectotype (#7092) in ANSP, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(2): 6; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 46, figs. 14 ♂ D, 38 ♂ D, pl. 54, fig. 1 ♀ D, as "types."
- d. **Poanes aaroni bordeloni** Gatrell, 2000  
Tax. Rep. Int. Lepid. Surv. 2(2): 8-9, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 12 ♀ D&V, 13 ♂ DFW, 16 ♀ DFW.  
**Original Combination:** *Poanes aaroni bordeloni*  
**Type Locality:** "Texas: Jefferson County, Sabine Pass"  
**Types:** Holotype at TAMU.
255. **Poanes yehl** (Skinner, 1893)  
Entomol. News 4(6): 212; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 40 ♂ D.  
**Original Combination:** *Pamphila yehl*  
**Type Locality:** "Florida"  
**Types:** Holotype in FMNH.  
‡"baiva" (Butler, 1870)  
Entomol. Mon. Mag. 7(76): 93.  
**Original Combination:** [*Pamphila*] *Baiva*  
Butler cited this as a Boisduval name without a description or indication; a *nomen nudum*.
256. **Poanes melane** (W. H. Edwards, 1869)  
a. **Poanes melane melane** (W. H. Edwards, 1869)  
Trans. Am. Entomol. Soc. 2(3): 312.  
**Original Combination:** *Hesperia Melane*  
**Type Locality:** "California"; defined as "San Francisco Bay area, California" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 75.  
**Types:** Lectotype in FMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 75, fig. 23 ♂ D&V.  
b. **Poanes melane vitellina** (Herrich-Schäffer, 1869)  
Corresp-Bl. zool.-min. Ver. Regensb. 23(12): 199, no. 25.  
**Original Combination:** [*Cobalus*] *vitellina*  
**Type Locality:** Not stated.  
**Types:** Type(s) may be in NMW.  
Burns (1992), J. Lepid. Soc. 46(1): 14, suggested that this may be a species-level taxon.  
‡"marmarosa" (Godman, 1900)  
In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 495.  
**Original Combination:** *Pamphila marmarosa*  
Godman cited this as a Staudinger name without a description or indication; a *nomen nudum*.

#### Genus *Stinga* Evans, 1955

Cat. Am. Hesp. Brit. Mus. (4): 300, 317. Type-species: *Pamphila morrisoni* W. H. Edwards, 1878, Field & Forest 3(7/8): 116, by original designation.

257. **Stinga morrisoni** (W. H. Edwards, 1878)  
Field & Forest 3(7/8): 116-117.  
**Original Combination:** *Pamphila Morrisoni*  
**Type Locality:** "Southern Colorado"; defined as "Hardscrabble Canyon, Custer County, Colorado" by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 279, 280.  
**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1977), Trans. Am. Entomol. Soc. 103(2): 280, fig. 14 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 26 ♂ D (lectotype), 27 ♀ D (paralectotype).

#### Genus *Ochlodes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 78. Type-species: *Hesperia nemorum* Boisduval, 1852, Anns. Soc. Entomol. Fr. (2)10: 314 (= *Hesperia agricola* Boisduval, 1852, Anns. Soc. Entomol. Fr. (2)10: 314; subspecies), by original designation. Chiba and Tsukiyama (1996), Butterflies 14: 3-16, revised this genus. The relative precedence of the various taxa named by Boisduval has not been unequivocally stated anywhere. Usage herein generally follows L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 42, Ferris (1989), Mem. Lepid. Soc. (3): 72, and Mielke (2005), Cat. Amer. Hesp. 5: 1112-1116.

258. **Ochlodes sylvanoides** (Boisduval, 1852)  
a. **Ochlodes sylvanoides sylvanoides** (Boisduval, 1852)  
Anns. Soc. Entomol. Fr. (2)10(2): 313-314, no. 71; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2083 ♂ D&V, 2084 ♂ D&V, 2085 ♀ D&V [this species?].  
**Original Combination:** *Hesperia sylvanoides*  
**Type Locality:** "Californie" implied from the title of the paper; defined as "Tuolumne gold fields, Tuolumne Co. Calif." by Scott (1981), Papilio (n.s.) 1: 10; corrected to "Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 20, based on the lectotype and Lorquin's itinerary.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 21, figs. 135 ♂ D, 136 ♂ V.

= *pratricula* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 315, no. 77; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, figs. 2088 ♂ D&V.

**Original Combination:** *Hesperia pratricula*

**Type Locality:** "Californie" implied from the title of the paper; defined as "Broderick, Yolo Co., Calif." by Scott (1981), Papilio (n.s.) 1: 11; corrected to "Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 21.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 22, figs. 144 ♀ D, 145 ♀ V. Tilden and Smith (1986), Field Guide W. Butts.: 227, suggested that *pratricula* is a species-level taxon, occurring in south-central California, flying in June (earlier than *sylvanoides*). The restriction of the type locality as given above removes the name *pratricula* from that consideration. If such a taxon is "rediscovered" in the future, it would require a new name.

= *francisca* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 220, no. 472; cited unpublished pl. 666.

**Original Combination:** [*Hesperia*] *Francisca*

**Type Locality:** "Californien, Mexico"

**Types:** Syntypes in ZHMB.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 145, determined this synonymy through an examination of the unpublished drawing made by Plötz.

b. ***Ochlodes sylvanoides santacruz*** Scott, 1981

Papilio (n.s.) 1: 11.

**Original Combination:** *Ochlodes sylvanoides santacruz*

**Type Locality:** "Santa Cruz Is. Calif...Central Valley" [Santa Barbara County, California]

**Types:** Holotype in EMEC.

Species-genus gender conformation is *santacruz*.

c. ***Ochlodes sylvanoides catalina*** J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (23): 313-314, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Ochlodes sylvanoides catalina*

**Type Locality:** "California: Los Angeles County; Santa Catalina Island; Toyon Bay"

**Types:** Holotype in LACM.

d. ***Ochlodes sylvanoides orecoasta*** Scott, 1981

Papilio (n.s.) 1: 11.

**Original Combination:** *Ochlodes sylvanoides orecoasta*

**Type Locality:** "Cullaby Lake, Clatsop Co., Ore." [Oregon]

**Types:** Holotype in LACM.

Species-genus gender conformation is *orecoastus*.

e. ***Ochlodes sylvanoides bonnevill*** Scott, 1981

Papilio (n.s.) 1: 10.

**Original Combination:** *Ochlodes sylvanoides bonnevill*

**Type Locality:** "Thomas Can., Ruby Mtns., Elko Co., Nev." [Nevada]

**Types:** Holotype in LACM.

Species-genus gender conformation is *bonnevillus*.

f. ***Ochlodes sylvanoides omnigena*** Austin, 1998

Syst. W. N. Am. Butts. (43): 526, figs. 17 ♂ D, 18 ♂ D (holotype); 19 ♀ D, 20 ♀ V.

**Original Combination:** *Ochlodes sylvanoides omnigena*

**Type Locality:** "Nevada: Lander County; Toiyabe Mountains, Kingston Canyon, 2285 m, T16N R43E, S27, 28 on USGS Millett Ranch, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

g. ***Ochlodes sylvanoides napa*** (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201, 202, pl. 1, figs. 3 ♂ D&V, 4 ♀ D&V.

**Original Combination:** *Hesperia Napa*

**Type Locality:** "Empire City, Colorado Territory"; defined as "Empire in Clear Creek County, Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 71.

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 71, fig. 20 ♂ D&V.

The neotype is the same specimen designated as lectotype by Tilden (1961), Entomol. News 72(2): 39; this specimen was not in Edwards' original type-series, and could not be a candidate for lectotype. No syntypes were found, so Brown and Miller decided that the specimen should be the neotype. Weidemeyer (1864), Proc. Entomol. Soc. Philad. 2[4]: 541, listed "[*Hesperia*] *napa*" without a description or indication; a *nomen nudum*.

= *amanda* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(4-6): 197, no. 404; cited unpublished pl. 617.

**Original Combination:** [*Hesperia*] *Amanda*

**Type Locality:** Not stated.

**Types:** Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined that this is "a var. of the N. American *Erynnis ottoe*, Edw., ♂" through an examination of the unpublished drawing made by Plötz. This name should probably be considered a *nomen dubium*.



259. **Ochlodes agricola** (Boisduval, 1852)
- a. **Ochlodes agricola agricola** (Boisduval, 1852)  
 Annls. Soc. Entomol. Fr. (2)10(2): 314-315, no. 76; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2087 ♂ D&V.  
**Original Combination:** *Hesperia agricola*  
**Type Locality:** "Californie" implied from the title of the paper; defined as "slope between Yellow Bluff and Cavallo Point, 2 miles SSE of Sausalito, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 21.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2) 21, figs. 141 ♂ D, 142 ♂ V.  
 = *yreka* (W. H. Edwards, 1866)  
 Proc. Entomol. Soc. Philad. 6(2): 200, 207-208, no. 9.  
**Original Combination:** *Hesperia Yreka*  
**Type Locality:** "San Francisco" [San Francisco County, California]  
**Types:** Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 66, fig. 17 ♂ D&V.  
 This is the same specimen designated as lectotype by Tilden (1961), Entomol. News 72(2): 40.  
 Weidemeyer (1864), Proc. Entomol. Soc. Philad. 2[4]: 541, listed "yrika" without a description or indication; it is both a misspelling and a *nomen nudum*.
- b. **Ochlodes agricola nemorum** (Boisduval, 1852)  
 Annls. Soc. Entomol. Fr. (2)10(2): 314, no. 75; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2086 ♂ D&V.  
**Original Combination:** *Hesperia nemorum*  
**Type Locality:** "le bord des bois"; defined as "Broderick, Yolo Co., Calif." by Scott (1981), Papilio (n.s.) 1: 11; corrected to "Queen Lily Campground, near Belden, North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 21.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 21, figs. 138 ♂ D, 139 ♂ V.  
 = *milo* (W. H. Edwards, 1883)  
 Can. Entomol. 15(2): 34-35.  
**Original Combination:** *Pamphila Milo*  
**Type Locality:** "Mt. Hood, Oregon"; considered more likely from "the prairies of western Washington" and suggested to be "Tenino in Thurston County, Washington" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 69; this is also impossible. See discussion below.  
**Types:** Holotype in CMNH, figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 67, fig. 18 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 52, fig. 44 ♂ D. This is the same specimen designated lectotype by Tilden (1961), Entomol. News 72(2): 40.  
 The originally stated type locality and the subsequent "restriction" are both incorrect. *Ochlodes agricola* has never been documented in Washington, and the only records from Oregon are in the southwestern part of the state (A. Warren (2005), Butts. Ore.: 55). Many localities provided to Edwards by Morrison were erroneous; some of these were later corrected by Morrison.
- c. **Ochlodes agricola verus** (W. H. Edwards, 1881)  
 Trans. Am. Entomol. Soc. 9(1): 4-5.  
**Original Combination:** *Pamphila Verus*  
**Type Locality:** "Havilah, California" [Kern County]  
**Types:** Lectotype in CMNH, designated by Tilden (1961), Entomol. News 72(2): 40; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 68, fig. 19 ♂ D&V.
260. **Ochlodes yuma** (W. H. Edwards, 1873)
- a. **Ochlodes yuma sacramentorum** Austin, 1998  
 Syst. W. N. Am. Butts. (43): 528, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.  
**Original Combination:** *Ochlodes yuma sacramentorum*  
**Type Locality:** "California: Sacramento County; Sacramento River Valley, Sherman Island, 3 m"  
**Types:** Holotype in MGCL.
- b. **Ochlodes yuma yuma** (W. H. Edwards, 1873)  
 Trans. Am. Entomol. Soc. 4(4): 346.  
**Original Combination:** *Hesperia Yuma*  
**Type Locality:** "Arizona"; defined as "vicinity of Owens Lake, Inyo County, California" by F. Brown (1958), Lepid. News 11(4/5): 154; neotype from "Darwin Falls, Inyo Co., California."  
**Types:** Neotype in CMNH, designated by Tilden (1961), Entomol. News 72(2): 42-43; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 64, fig. 15 ♂ D&V.
- c. **Ochlodes yuma lutea** Austin, 1998  
 Syst. W. N. Am. Butts. (43): 527, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.  
**Original Combination:** *Ochlodes yuma lutea*  
**Type Locality:** "Nevada: Lander County; Toiyabe Mountains, Bowman Creek, 1859 m, T15N R43E S13 near Nye County Line on USGS Millett Ranch, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- d. **Ochlodes yuma scudderi** (Skinner, 1899)  
 Entomol. News 10(5): 111-112.  
**Original Combination:** *Pamphila scudderi*  
**Type Locality:** "White River, Colorado" [Rio Blanco County]  
**Types:** Syntype (#7097, labeled as "holotype") in ANSP; figured by Skinner (1900), Entomol. News 11(4): pl. 2, figs. 9 ♂ D,

10 ♂ V; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 2 ♂ D.

e. **Ochlodes yuma anasazi** S. Cary & Stanford, 1995

Bull. Allyn Mus. (140): 2-3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Ochlodes yuma anasazi*

**Type Locality:** "New Mexico: Taos Co., Rio Grande Gorge near Questa"

**Types:** Holotype in MGCL.

Genus **Paratrytone** Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 487. Type-species: *Paratrytone rhexenor* Godman, 1900, in: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 488, no. 1; 3: pl. 93, figs. 41, 42, 43, by original designation. Burns (1992), J. Lepid. Soc. 46(1): 1-23, discussed the circumscription of this genus; he removed *melane* (to *Poanes*) and added *snowi* (from *Ochlodes*).

261. **Paratrytone snowi** (W. H. Edwards, 1877)

Can. Entomol. 9(2): 29-30.

**Original Combination:** *Hesperia Snowi*

**Type Locality:** "Colorado, at Ute Pass" [El Paso County]

**Types:** Lectotype in SEMC, designated by Tilden (1961), Entomol. News 72(2): 41; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 67, fig. 16 ♂ D&V.

Genus **Anatrytone** Dyar, 1905

J. N. Y. Entomol. Soc. 13(3): 140. Type-species: *Hesperia delaware* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2[1]: 19, no. 8, pl. 5, fig. 2 (= *Hesperia logan* W. H. Edwards, 1863, Proc. Entomol. Soc. Philad. 2(1): 18-19, no. 7, pl. 1, fig. 5; synonym), by original designation. This genus was resurrected by Burns (1994), J. Lepid. Soc. 48(4): 273-337.

= *Mellana* Hayward, 1948

Acta zool. Lilloana 5: 98. Type-species: *Atrytone mella* Godman, 1900, in: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 492-493, no. 5; 3: pl. 94, figs. 14 ♂ D, 15 ♂ V, 16 ♂ genitalia, by original designation. Actually, Hayward misidentified *Pamphila perfida* Möschler, 1879, Verh. zool.-bot. Ges. Wien 28: 221, no. 28, as *mella*, as determined by Burns (1994), J. Lepid. Soc. 48(4): 293-294. This is a case of a misidentified type species. The type-species is herein fixed (under Code Article 70.3) as *Atrytone mella* Godman, 1900, misidentified in the original designation by Hayward (1948).

logan group Burns, 1994

J. Lepid. Soc. 48(4): 280-285.

262. **Anatrytone logan** (W. H. Edwards, 1863)

a. **Anatrytone logan logan** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[1]: 14, 18-19, no. 7, pl. 1, fig. 5 ♀ D&V.

**Original Combination:** *Hesperia Logan*

**Type Locality:** "Lansing, Michigan...Philadelphia"; neotype from "Kanawha River, Kanawha County, West Virginia."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61, fig. 11 ♀ D&V; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 25 ♀ D.

= *delaware* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[1]: 14, 19, no. 8, pl. 5, fig. 2 ♂ D&V.

**Original Combination:** *Hesperia Delaware*

**Type Locality:** "Philadelphia"; neotype from "Kanawha River, Kanawha County, West Virginia."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61, fig. 12 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 46, fig. 24 ♂ D.

Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 77, no. 2, made the first reviser choice of *logan* over *delaware*.

b. **Anatrytone logan lagus** (W. H. Edwards, 1881)

Trans. Am. Entomol. Soc. 9(1): 5.

**Original Combination:** *Pamphila Lagus*

**Type Locality:** "western Texas...southern Colorado...Nevada...Oak Creek Canon"; defined as "Oak Creek Canon, Custer County, Colorado" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 61.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 62, fig. 13 ♂ D&V.

263. **Anatrytone mazai** (H. Freeman, 1969)

J. Lepid. Soc. 23 (suppl. 2): 39, pl. 13, figs. 1 ♂ D, 2 ♂ V (holotype); pl. 15, fig. 8 ♂ genitalia.

**Original Combination:** *Atrytone mazai*

**Type Locality:** "Mexcala, Guerrero, Mexico"

**Types:** Holotype in AMNH.

Genus **Quasimellana** Burns, 1994

J. Lepid. Soc. 48(4): 299-302. Type-species: *Atrytone mexicana* E. Bell, 1942, An. Esc. Nac. Cienc. Biol. Mex. 2(4): 461-462, no. 11, fig. 5, by original designation.

eulogius group Burns, 1994  
J. Lepid. Soc. 48(4): 302-303.

264. **Quasimellana eulogius** (Plötz, 1882)  
Stettiner Entomol. Ztg. 44(1-3): 64, no. 393; cited unpublished pl. 608.  
**Original Combination:** [*Hesperia*] *Eulogius*  
**Type Locality:** "Mexico"  
**Types:** Type(s) in ZMHB.  
= *mellona* (Godman, 1900)  
*In:* Godman & Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 493, no. 6; 3: pl. 94, figs. 17 ♂ D, 18 ♂ V, 19 ♂ genitalia.  
Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.  
**Original Combination:** *Atrytone mellona*  
**Type Locality:** "Mexico, Presidio de Mazatlan...Soledad, Tierra Colorada, Dos Arroyos, Rio Papagaio, and Acaguizotla [*sic*]; Acahuizotla], all in Guerrero...Atoyac...Orizaba...Valladolid in Yucatan...Guatemala, Pacific coast, Pochich and Chisoy Valleys... San Gerónimo...Panama, Chiriqui...Guiana"; defined as "Mexico" by Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 356.  
**Types:** Syntypes (one labeled as "holotype") in BMNH.  
= *heberia* (Dyar, 1914)  
Insecutor Inscit. menstr. 2(1): 5.  
**Original Combination:** *Atrytone heberia*  
**Type Locality:** "Non Pareil Plantation, British Guiana" [Georgetown, Guyana]  
**Types:** Lectotype (#18116) in USNM, designated by Burns (1994), J. Lepid. Soc. 48(4): 304.  
= *oaxaca* (H. Freeman, 1979)  
Bull. Allyn Mus. (52): 10-11, figs. 20 ♂ D, 21 ♂ V (holotype), 29 ♂ genitalia.  
**Original Combination:** *Mellana oaxaca*  
**Type Locality:** "Candelaria Loxicha, Oaxaca, Mexico"  
**Types:** Holotype in MGCL.

#### Genus *Notamblyscirtes* Scott, 2006

Papilio (n.s.) 12: 70. Type-species: *Amblyscirtes simius* W. H. Edwards, 1881, Trans. Am. Entomol. Soc. 9(1): 6-7, by original designation. Burns (1990), J. Lepid. Soc. 44(1): 18-21, removed *simius* from *Amblyscirtes*. Scott (1992), Papilio (n.s.) 6: 160-161, listed *simius* as "Not-'Amblyscirtes'", but it was clear from the context and diagnosis that he did not propose a new name; that shortcoming was rectified as above.

265. **Notamblyscirtes simius** (W. H. Edwards, 1881)  
Trans. Am. Entomol. Soc. 9(1): 6-7.  
**Original Combination:** *Amblyscirtes Simius*  
**Type Locality:** "Oak Creek Canyon, Colorado...Pueblo, Colorado"; defined as "Oak Creek Canyon, Custer County, Colorado" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 54.  
**Types:** Lectotype in CMNH, designated by W. Holland (1898), Butt. Book: 369, pl. 47, fig. 8 ♂ D, as "type"; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 54, fig. 19 ♂ D&V.  
= ♀ "nigra" Scott, 1981  
Papilio (n.s.) 1: 10.  
**Original Combination:** *Amblyscirtes simius* form *nigra*  
**Type Locality:** "southern Colorado...Arizona"  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.  
= ♀ "rufa" Scott, 1981  
Papilio (n.s.) 1: 10.  
**Original Combination:** *Amblyscirtes simius* form *rufa*  
**Type Locality:** "southern Colorado...Arizona"  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

#### Genus *Euphyes* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 80. Type-species: *Hesperia metacometa* T. Harris, 1862, Ins. injur. Veget. (3rd ed.): 317 (= *Hesperia vestris* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10: 317; subspecies), by original designation. Shuey (1989), J. Res. Lepid. 27(3/4): 160-172, discussed relationships between the various species and groups in this genus.

dion group Shuey, 1989  
J. Res. Lepid. 27(3/4): 160.

266. **Euphyes pilatka** (W. H. Edwards, 1867)  
a. **Euphyes pilatka pilatka** (W. H. Edwards, 1867)  
Trans. Am. Entomol. Soc. 1(3): 286, 287, no. 3.  
**Original Combination:** *Hesperia Pilatka*  
**Type Locality:** "St. Augustine, Florida" [St. Johns County]



**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 82, fig. 29 ♂ D&V. The city of Palatka, Florida was spelled "Pilatka" until 1853. Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 80, spelled this name "*palatka*," in the text and in the reference to W. H. Edwards' original description; an unjustified emendation.

= *floridensis* (Plötz, 1883)

Stettiner Entomol. Ztg. 44(46): 196, no. 401; cited unpublished pl. 616.

**Original Combination:** [*Hesperia*] *Floridensis*

**Type Locality:** "Florida"

**Types:** Holotype may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 144, determined this synonymy through an examination of the unpublished drawing made by Plötz.

b. *Euphyes pilatka klotsi* L. Miller, Harvey & J. Miller, 1985

Florida Entomol. 68(2): 325-327, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 11 ♂ genitalia, 12-15 ♂ valvae, 19 ♀ genitalia.

**Original Combination:** *Euphyes pilatka klotsi*

**Type Locality:** "Florida: Monroe Co., Sugarloaf Key, T66S, R27E, Sec. 23"

**Types:** Holotype in MGCL.

267. *Euphyes conspicua* (W. H. Edwards, 1863)

a. *Euphyes conspicua orono* (Scudder, 1872)

4th Ann. Rep. Peabody Acad. Sci. (1871): 79, no. 4.

**Original Combination:** *H[edone]*. *Orono*

**Type Locality:** "northern states (probably)"; "Maine" implied from the name of Chief Orono of the Penobscot Nation.

**Types:** Holotype (#16581) in MCZ.

Elevated to the subspecies-level by L. Miller *et al.* (1985), Florida Entomol. 68(2): 333-334.

b. *Euphyes conspicua conspicua* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 17, no. 5; (2): pl. 5, fig. 5 ♀ D&V.

**Original Combination:** *Hesperia Conspicua*

**Type Locality:** "Lansing, Michigan"; neotype from "Dansville State Game Area, Ingham County, Michigan."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 79, fig. 26 ♀ D&V. Species-genus gender conformation is *conspicuus*.

= *pontiac* (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2(1): 14, 17-18, no. 6: (4): pl. 11, fig. 5 ♂ D.

**Original Combination:** *Hesperia Pontiac*

**Type Locality:** "Lansing, Michigan"; neotype from "Dansville State Game Area, Ingham County, Michigan."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 81, fig. 27 ♂ D&V.

c. *Euphyes conspicua buchholzi* (P. Ehrlich & Gillham, 1951)

Entomol. News 62(6): 188-189.

**Original Combination:** *Atrytone conspicua buchholzi*

**Type Locality:** "Valley, Nebraska" [Douglas County]

**Types:** Holotype in AMNH.

268. *Euphyes berryi* (E. Bell, 1941)

Entomol. News 52(6): 167.

**Original Combination:** *Atrytone berryi*

**Type Locality:** "Monticello, Florida" [Jefferson County]

**Types:** Holotype in AMNH.

269. *Euphyes dion* (W. H. Edwards, 1879)

Can. Entomol. 11(12): 238-239.

**Original Combination:** *P[amphila]*. *Dion*

**Type Locality:** "Nebraska...southern shore of Lake Michigan...Indiana...Hamilton, Ont."; defined as "Whiting, Lake County, Indiana" by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 81.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 388, pl. 53, fig. 36 ♂ D, as "type"; figured by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 82, fig. 28 ♂ D&V.

= *alabamiae* (Lindsey, 1923)

Entomol. News 34(7): 210.

**Original Combination:** *Atrytone (Euphyes) alabamiae*

**Type Locality:** "Mobile County, Alabama"

**Types:** Holotype in USNM.

Shuey (1989), J. Res. Lepid. 27(3/4): 163-165, determined this synonymy.

= *macguirei* H. Freeman, 1975

J. Lepid. Soc. 29(4): 227-229, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ genitalia.

**Original Combination:** *Euphyes macguirei*

**Type Locality:** "Benbrook Res., Tarrant Co., Texas"

**Types:** Holotype in AMNH.

Shuey (1989), J. Res. Lepid. 27(3/4): 161-163, determined this synonymy.

270. *Euphyes bayensis* Shuey, 1989

J. Res. Lepid. 27(3/4): 165-166, figs. 8, 1st column top ♂ D (holotype), 2nd ♂ D, 3rd ♂ D, 4th ♀ D, bottom ♀ D, second column top ♂ D, 2nd ♂ D, 3rd ♂ D, 4th ♀ D, bottom ♀ D, 9 1st column top ♂ V (holotype), 2nd ♂ V, 3rd ♂ V, 4th ♀ V, bottom ♀ V, second

column top ♂ V, 2nd ♂ V, 3rd ♂ V, 4th ♀ V, bottom ♀ V, figs. 10-21 ♂ genitalia, figs. 34-45 ♀ genitalia.

**Original Combination:** *Euphyes bayensis*

**Type Locality:** "Bay St. Louis, Hancock County, Mississippi"

**Types:** Holotype in CMNH.

271. *Euphyes dukesi* (Lindsey, 1923)

a. *Euphyes dukesi dukesi* (Lindsey, 1923)

Entomol. News 34(7): 210-211.

**Original Combination:** *Atrytone (Euphyes) dukesi*

**Type Locality:** "Mobile County, Alabama"

**Types:** Holotype in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 26 ♂ D.

b. *Euphyes dukesi calhouni* Shuey, 1996

J. Lepid. Soc. 50(1): 46-47, figs. 1, 2, 3 ♂ genitalia, 7, 8, 9, 10 ♀ genitalia, 15 ♂ D, 16 ♂ V, 17 ♀ D, 18 ♀ V (?holotype).

**Original Combination:** *Euphyes dukesi calhouni*

**Type Locality:** "Florida, Pasco County, 'Cabbage Swamp'"

**Types:** Holotype in CMNH.

vestris group Shuey, 1993

J. Lepid. Soc. 47(4): 271, 272.

272. *Euphyes bimacula* (Grote & Robinson, 1867)

a. *Euphyes bimacula bimacula* (Grote & Robinson, 1867)

Ann. Lyc. Nat. Hist. New York 8: 433-434.

**Original Combination:** *Hesperia bimacula*

**Type Locality:** "Atlantic District (Philadelphia!)"

**Types:** Holotype may be in NYSM.

= *acanoetus* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 381-382, no. 84.

**Original Combination:** *Hesperia Acanootus*

**Type Locality:** "Lexington, Mass." [Middlesex County, Massachusetts]

**Types:** Holotype may be in MCZ.

b. *Euphyes bimacula arbogasti* Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(10): 6, figs. 21 ♂ D, 26 ♂ V (holotype); 22 ♀ D, 27 ♀ V.

**Original Combination:** *Euphyes bimacula arbogasti*

**Type Locality:** "South Carolina: Berkeley County, nr. jct. of I-26 and hwy. 17-A"

**Types:** Holotype in MGCL.

c. *Euphyes bimacula illinois* (Dodge, 1872)

Can. Entomol. 4(11): 217-218.

**Original Combination:** *Hesperia illinois*

**Type Locality:** "Burcan [*sic*] County, Illinois...upon grassy slopes on the high rolling prairie that forms the divide between the Illinois and Rock rivers" [Bureau County, Illinois]. Neotype from "Denine Crossing, Grundy County, Illinois."

**Types:** Syntype (#1872) in ANSP. Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(10): 5, figs. 11 ♂ D, 16 ♂ V, designated a "neotype" in MGCL, but this is invalid if the ANSP specimen is a syntype.

= *†"contradicta"* (Leussler, 1933)

Entomol. News 44(3): 71.

**Original Combination:** *Atrytone bimacula* ♀ aberration *contradicta*

**Type Locality:** "Valley, Nebraska" [Douglas County]

**Types:** Holotype in OSU.

273. *Euphyes arpa* (Boisduval & Le Conte, [1837])

Hist. Lépid. Amér. sept. (23): pl. 68, figs. [1] ♂ D, [2] ♂ V, [3] ♀ D, [4] larva, [5] pupa.

**Original Combination:** *Hesperia Arpa*

**Type Locality:** Not stated (there is no text); "Georgia" implied from John Abbot's notes for this drawing.

**Types:** Types are the specimens that John Abbot painted and are probably lost. Evans (1955), Cat. Am. Hesp. Brit. Mus. (4): 362, noted that the "type" is in BMNH, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

274. *Euphyes vestris* (Boisduval, 1852)

a. *Euphyes vestris harbisoni* J. Brown & McGuire, 1983

Trans. San Diego Soc. Nat. Hist. 20(3): 58-62, fig. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Euphyes vestris harbisoni*

**Type Locality:** "13.3 km east of Dulzura, north slope of Tecate Peak, elevation 500m, San Diego County, California"

**Types:** Holotype (#L-49) in SDMC.

b. *Euphyes vestris vestris* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 317-318, no. 83; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2093 ♀ D&V (holotype).

**Original Combination:** *Hesperia? vestris*

**Type Locality:** "les lieux arides"; defined as "Spanish Ranch Road at Meadow Valley Creek, vicinity of fire station in Meadow Valley, 3600', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23.

**Types:** Holotype in BMNH, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23, figs. 153 ♀ D, 154 ♀ V.

= *osceola* (Lintner, 1878)

Entomol. Contr. 4: 57-58.

**Original Combination:** *Pamphila Osceola*

**Type Locality:** "Mendocino, California"; syntype labeled "Ca." [Mendocino County]

**Types:** Syntype (#5698) in NYSM; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 53, fig. 40 ♂ D, 41 ♀ D; a possible syntype in CMNH (W. H. Edwards collection).

A. Warren (2005), Butts. Ore.: 57, discussed this name and its position of the synonymy of *E. v. vestris*.

= *californica* (Mabille, 1883)

Annls. Soc. Entomol. Belg. 27(c.r.) (31): lxviii.

**Original Combination:** *Pamphila Californica*

**Type Locality:** "Californic"

**Types:** Holotype in BMNH.

c. **Euphyes vestris kiowah** (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6[1]: 150.

**Original Combination:** *Hesperia Kiowah*

**Type Locality:** "Rocky Mountains"; holotype from "Colorado."

**Types:** Holotype in FMNH.

= ♂ "immaculatus" (R. Williams, 1914)

Entomol. News 25(6): 267.

**Original Combination:** [*Pamphila vestris*] *immaculatus* n. var.

**Type Locality:** "Jamez [sic!; Jemez] Mountains, New Mexico" implied from the title of the paper. [Sandoval County]

**Types:** "Lectotype" (#7168) in ANSP, designated by Mielke (1989), Revta. bras. Entomol. 33(2): 350, figs. 5, 6 ♀ genitalia, 27 ♀ D, 28 ♀ V.

The text clearly indicates that this taxon was described as an individual variant.

d. **Euphyes vestris metacomet** (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 317.

**Original Combination:** *Hesperia Metacomet*

**Type Locality:** "Massachusetts" implied from the title of the first edition of the book; stated to be "Massachusetts" by Morris (1862), Smithsonian Misc. Coll. [4]: 110, no. 18.

**Types:** Syntypes (#26352) in MCZ.

= *rurea* (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 58, no. 7.

**Original Combination:** *Pamphila rurea*

**Type Locality:** "Rock Island, Illinois"; neotype from "Perryton Township, Mercer County, Illinois."

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 77, fig. 24 ♂ D&V.

= *osyka* (W. H. Edwards, 1867)

Trans. Am. Entomol. Soc. 1(3): 286, 288, no. 5.

**Original Combination:** *Hesperia Osyka*

**Type Locality:** "vicinity of New Orleans" [Orleans Parish, Louisiana]

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1980), Trans. Am. Entomol. Soc. 106(1): 78, fig. 25 ♂ D&V.

Durden (1982), J. Lepid. Soc. 36(1): 9, treated this as a subspecies-level taxon.

♂ "baeis" Scudder, 1889

Butts. E. U. S. & Can. 3(12): 1865.

**Original Combination:** [*Euphyes osyka*] = *Hesperia baeis* Boisd. manuscript

Proposed for a Boisdual manuscript name in the synonymy of *osyka* without a description or indication; a *nomen nudum*.

Genus **Asbolis** Mabille, 1904

In: Wytzman, Gen. Ins. (17b): 134. Type-species: *Goniloba sandarac* Herrich-Schäffer, 1865, Corresp-BI. zool.-min. Ver. Regensburg 19(3/4): 54, no. 10 (= *Eudamus capucinus* Lucas, 1857, in: Sagra, Hist. Cuba 7(2): 625-626; synonym), by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 25: 79.

275. **Asbolis capucinus** (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 625-626.

**Original Combination:** *Eudamus Capucinus*

**Type Locality:** "habite l'île de Cuba"

**Types:** Location of type(s) not known.

= *sandarac* (Herrich-Schäffer, 1865)

Corresp-BI. zool.-min. Ver. Regensburg 19(3/4): 54, no. 10.

**Original Combination:** [*Goniloba*] *sandarac*

**Type Locality:** "Cuba" implied from the title of the paper.

**Types:** Syntype (#7157) in ANSP.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 137, determined that this taxon is synonymous with *palaea*, through an examination to the unpublished drawing made by Plötz (pl. 271).

= *palaea* (Hewitson, 1868)



Descr. One Hundred new Spec. Hesp. (2): 31, no. 21; figured by Hewitson (1869), Ill. exot. Butts. 4(70): pl. Hesperia IV [59], fig. 31 ♂ D.

**Original Combination:** *Hesperia palaea*

**Type Locality:** Not stated; "Cuba" on label of holotype.

**Types:** Holotype in BMNH.

Genus *Atrytonopsis* Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(157): 497. Type-species: *Hesperia deva* W. H. Edwards, 1877, Trans. Am. Entomol. Soc. 5(3/4): 292, by original designation.

276. *Atrytonopsis hianna* (Scudder, 1868)

a. *Atrytonopsis hianna hianna* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 382-383, no. 92; figured by Scudder (1889), Butts. E. U. S. & Can. 3(12): pl. 10, figs. 31 ♂ D&V, 32 ♀ D.

**Original Combination:** *Hesperia Hianna*

**Type Locality:** "Quincy and Dorchester, Mass." [Quincy is in Norfolk County]

**Types:** Syntypes (#15334) in MCZ.

= *grotei* (Plötz, 1882)

Stettiner Entomol. Ztg. 44(1-3): 54, no. 360; cited unpublished pl. 360 (pl. 573 in BMNH).

**Original Combination:** [*Hesperia*] *Grotei*

**Type Locality:** "Union" [United States]

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), Ann. Mag. Nat. Hist. (7)20(116): 143, determined this synonymy through an examination of the unpublished drawing made by Plötz.

b. *Atrytonopsis hianna turneri* H. Freeman, 1948

Entomol. News 59(8): 205-206.

**Original Combination:** *Atrytonopsis turneri*

**Type Locality:** "Barber Co., Kansas"

**Types:** Holotype in AMNH.

277. *Atrytonopsis loammi* (Whitney, 1876)

Can. Entomol. 8(4): 76-77; figured by Skinner (1900), Entomol. News 11(4): pl. 2, fig. 27 ♂ D.

**Original Combination:** *Lerema loammi*

**Type Locality:** "Jacksonville, Fla." [Duval County, Florida]

**Types:** Location of syntype(s) not known (ANSP or DCM?).

Scott (1986), Butts. N. Am.: 457, treated this as a subspecies of *A. hianna*.

= *regulus* (W. H. Edwards, 1881)

Trans. Am. Entomol. Soc. 9(1): 5.

**Original Combination:** *Pamphila Regulus*

**Type Locality:** "upper St. John's River, Orange Co., Florida"; Calhoun (1997), Holarct. Lepid. 4(2): 43, suggested that this may be in modern Lake, Osceola or Seminole counties.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 34-35, fig. 4 ♂ D&V.

= *apostologica* (Strand, 1921)

Archiv. Naturgesch. (A)86(7): 160-161.

**Original Combination:** *Parnara apostologica*

**Type Locality:** "Stemper, Fl." [Hillsborough County, Florida]

**Types:** Holotype in DEL.

278. *Atrytonopsis deva* (W. H. Edwards, 1877)

Trans. Am. Entomol. Soc. 5(3/4): 292.

**Original Combination:** *Hesperia Deva*

**Type Locality:** "Prescott"; neotype suggested to be from "vicinity of Tucson." [Pima County, Arizona]

**Types:** Neotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 38, fig. 6 ♀ D&V.

279. *Atrytonopsis lunus* (W. H. Edwards, 1884)

Papilio 4(3): 56.

**Original Combination:** *Pamphila Lunus*

**Type Locality:** "Arizona"; suggested to be "vicinity of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 35.

**Types:** Lectotype in CMNH, designated by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 35, fig. 6 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 15 ♂ D.

280. *Atrytonopsis vierecki* (Skinner, 1902)

Entomol. News 13(7): 213.

**Original Combination:** *Pamphila vierecki*

**Type Locality:** "Dry Canon, Alamogordo, New Mexico" [Otero County]

**Types:** Syntypes (#7105) in ANSP; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 3 ♂ D.

281. *Atrytonopsis pittacus* (W. H. Edwards, 1882)

Papilio 2(8): 138-139.

- Original Combination:** *Pamphila Pittacus*  
**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 393, pl. 54, fig. 11 ♂ D, as "type"; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 33, fig. 3 ♂ D&V.
282. ***Atrytonopsis python*** (W. H. Edwards, 1882)  
 Papilio 2(8): 139.  
**Original Combination:** *Pamphila Python*  
**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]  
**Types:** Holotype in CMNH; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 32, fig. 2 ♀ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 4 ♀ D.  
 = *margarita* (Skinner, 1913)  
 Can. Entomol. 45(12): 426.  
**Original Combination:** *Pamphila margarita*  
**Type Locality:** "Jemez Springs, New Mexico" [Sandoval County]  
**Types:** Syntypes (#7106) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 54, fig. 12 ♂ D.
283. ***Atrytonopsis cestus*** (W. H. Edwards, 1884)  
 Papilio 4(3): 57.  
**Original Combination:** *Pamphila Cestus*  
**Type Locality:** "southern Arizona"; suggested to be "vicinity of Tucson, Pima County, Arizona" by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 31.  
**Types:** Holotype (#33624) in USNM; figured by F. Brown and L. Miller (1987), Trans. Am. Entomol. Soc. 113(1): 31, fig. 1 ♂ D&V.
284. ***Atrytonopsis edwardsi*** W. Barnes & McDunnough, 1916  
 Contr. Nat. Hist. Lepid. N. Am. 3(2): 135, pl. 8, figs. 9 ♂ D, 10 ♀ D.  
**Original Combination:** *Atrytonopsis edwardsi*  
**Type Locality:** "Redington, Ariz....Babaquivera [*sic*] Mts., Ariz.," lectotype from "Redington"; Burns (1983), Proc. Entomol. Soc. Wash. 84(3): 337, suggested that the type locality is "higher ground to the west, to wit, the 'Santa Catalina Mountains.'" [Pima County]  
**Types:** Lectotype in USNM, designated by Burns (1983), Proc. Entomol. Soc. Wash. 84(3): 337, fig. 13 ♂ D&V, figs. 25-27 ♂ genitalia.  
 = *polingi* Gunder, 1925  
 Entomol. News 36(7): 195, no. 3, pl. 5, fig. 3 ♂ V ("holotype").  
**Original Combination:** *Atrytonopsis edwardsi* ab. ♂ *polingi*  
**Type Locality:** "Baboquivari Mountains, Pima County, Arizona"  
**Types:** "Holotype" in AMNH.

Genus *Nyctelius* Hayward, 1948

Acta zool. Lilloana 5: 99. Type-species: *Hesperia nyctelius* Latreille, [1824], in: Ency. méth. 9(Ins.)(2): 746, no. 47[a], by original designation.

285. ***Nyctelius nyctelius*** (Latreille, [1824])  
 a. ***Nyctelius nyctelius nyctelius*** (Latreille, [1824])  
 In: Ency. méth. 9(Ins.)(2): 746, no. 47[a].  
**Original Combination:** [*Hesperia*] *Nyctelius*  
**Type Locality:** "au Brésil & à Surinam"  
**Types:** Syntype in BMNH (not in MNHP), as noted by N. Riley (1926), Trans. Entomol. Soc. Lond. 74(2): 234.  
 = *ares* (C. Felder, [1863])  
 Verh. zool.-bot. Ges. Wien 12(1): 477, no. 65.  
**Original Combination:** *Hesperia Ares*  
**Type Locality:** "Rio de Janeiro" [Brazil]  
**Types:** Holotype probably in NMW.  
 = *coscinia* (Herrich-Schäffer, 1865)  
 Corresp.-Bl. zool.-min. Ver. Regensburg 19(3/4): 54, no. 9.  
**Original Combination:** [*Goniloba*] *coscinia*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Syntype (#7141) in ANSP.  
 ≠ *aegialea* (Plötz, 1882)  
 Stettiner Entomol. Ztg. 44(1-3): 52, under no. 346.  
**Original Combination:** [*Hesperia*] *Coscinia* [synonym] *Aegialea*  
 This name was listed in synonymy without description or indication; a *nomen nudum*.

Genus *Thespieus* Godman, 1900

In: Godman and Salvin, Biol. centr.-amer., Lepid. Rhop. 2(158): 519. Type-species: *Hesperia dalman* Latreille, [1824], Ency. méth. 9(Ins.)(2): (717), 747, no. 48, by original designation.

286. ***Thespieus macareus*** (Herrich-Schäffer, 1869)  
 Corresp.-Bl. zool.-min. Ver. Regensburg 23(12): 192, no. 53.

**Original Combination:** [*Goniloba*] *macareus*

**Type Locality:** Not stated.

**Types:** Lectotype in ZMHB, designated by Mielke and Casagrande (2002), *Revta. bras. Zool.* 19(supl. 1): 66.

= *emacareus* (Plötz, 1882)

*Stettiner Entomol. Ztg.* 43(10-12): 438, no. 148; cited unpublished pl. 393.

**Original Combination:** [*Hesperia*] *Emacareus*

**Type Locality:** "Venezuela"

**Types:** Type(s) may be in ZSMC or lost.

Godman (1907), *Ann. Mag. Nat. Hist.* (7)20(116): 139, determined this synonymy through an examination of the unpublished drawing made by Plötz.

= *cacajo* Dyar, 1913

*Proc. U. S. Nat. Mus.* 44(1951): 280.

**Original Combination:** *Thespieus cacajo*

**Type Locality:** "Naranjo, Guerrero, Mexico, 3,000 feet"

**Types:** Lectotype (#14489) in USNM, designated by Mielke and Casagrande (2002), *Revta. bras. Zool.* 19(supl. 1): 66, but the original description noted that the holotype (#21216) is in the USNM.



Superfamily **PAPILIONOIDEA** Latreille, [1802]

Hist. Nat. Crust. Ins. 3: 387 (as "Papilionides"). Type-genus: *Papilio* Linnaeus, 1758. I.C.Z.N. *Opinion* 278 placed *Papilio* on the *Official List of Generic Names in Zoology* as name no. 703. I.C.Z.N. *Direction* 99 placed Papilionidae [Leach], [1815] (as "Papilionida"), in: Brewster's Edinburgh Ency. 9: 127, on the *Official List of Family-Group Names in Zoology* as name no. 233, and placed Papilionida [Leach] on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 271; I.C.Z.N. *Direction* 116 deleted this entry, corrected as above, and placed Papilionides on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 500.

Family **PAPILIONIDAE** Latreille, [1802]Subfamily **Parnassiinae** Duponchel, [1835]

In: Godart, Hist. Nat. Lépid. Fr. Suppl. 1(22): 380. Type-genus: *Parnassius* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(tab.): 185, 199.

Tribe **Parnassiini** Duponchel, [1835]Genus **Parnassius** Latreille, 1804

Nouv. Dict. Hist. Nat. 24(tab.): 185, no. 472, 199. Type-species: *Papilio apollo* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 41, by monotypy. Koçak (1981), Priamus 1(2): 51 (nota), claimed that *Parnassius* was first used as a proper genus by Schneider (1785), Nomen. Entomol.: 34 (as "2 *Parnassius* F."). Schneider did not use the name in a generic sense, but as an interposed adjective; Wagener (1988), Nota Lepid. 11(3): 237-238, discussed this issue. *Nomina collectiva* are descriptive epithets applying to individual variants below the subspecies-level. They frequently lack a description or indication and are almost always cited in some kind of quadrinomial combination. In the following synonymies, *nomina collectiva* are referenced for each taxon, but not listed individually.

- = ‡*Doritis* [Fabricius], 1807  
In: Illiger, Mag. f. Insektenk. 6: 283, no. 22. Type-species: *Papilio apollo* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 41, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(1): 60. A junior objective synonym of *Parnassius* Latreille, 1804.
- = ‡*Parnassis* Hübner, [1819]  
Verz. bekannt. Schmett. (6): 90. Type-species: *Papilio apollo* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 41, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 136. A junior objective synonym of *Parnassius* Latreille, 1804. This name may have been a misspelling, emendation, or a new description by Hübner; see Hemming (1967), Bull. Brit. Mus. Nat. Hist. (Entomol.) Suppl. 9: 345.
- = ‡*Therius* Billberg, 1820  
Enum. Ins. Mus. Billb.: 75. Type-species: *Papilio apollo* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 41, by designation of Hemming (1933), Entomol. 66(9)[844]: 199. A junior objective synonym of *Parnassius* Latreille, 1804.
- = *Tadumia* Moore, 1902  
Lepid. Ind. 5(53): 116. Type-species: *Parnassius acco* Graye, [1853], Cat. Lepid. Ins. Brit. Mus. 1(Pap.): 76, no. 350, pl. 12, figs. 5, 6, by original designation.
- = *Kailasius* Moore, 1902  
Lepid. Ind. 5(53): 118. Type-species: *Parnassius charltonius* G. Gray, [1853] Cat. Lepid. Ins. Brit. Mus. 1(Pap.): 77, no. 355, pl. 12, fig. 7, by original designation.
- = *Koramius* Moore, 1902  
Lepid. Ind. 5(53): 120. Type-species: *Doritis delphius* Eversmann, 1843, Bull. Soc. Imp. Nat. Moscou 16(3): 541, pl. 7, fig. 1A, B, by original designation.
- = *Lingamius* Bryk, 1935  
Tierreich 65: 538-540. Type-species: *Parnassius hardwickii* G. Gray, 1831, Zool. Miscell. (J. E. Gray)(1): 32, by original designation. This name was proposed twice by Bryk (1932), Parnassiana 2(1): 1, and Parnassiana 2(2): 20; no diagnosis or type-species designation was included in either publication. Since these names were proposed after 1930, they are not available (Code Articles 13.1.1, 13.3, 67.4.1).
- = *Eukoramius* Bryk, 1935  
Tierreich 65: 630, 673-674. Type-species: *Parnassius imperator* Oberthür, 1883, Annls. Soc. Entomol. Fr. 6(3)(bull.)2(5): lxxvi-lxxvii, by monotypy. This name was proposed by Bryk (1934), Parnassiana 3(3): 43; without a diagnosis or type-species designation; since this name was proposed after 1930, it is not available (Code Articles 13.1.1, 13.3, 67.4.1).
- = *Driopa* Korshunov, 1988  
Nov Maloizvestiye Vidy Fauny Sib. No. 20: 65-67. Type-species: *Papilio mnemosyne* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 42, by original designation.
- = *Erythrodriopa* Korshunov, 1988  
Nov Maloizvestiye Vidy Fauny Sib. No. 20: 67. Type-species: *Parnassius ariadne* Lederer, 1853, Verh. zool.-bot. Ges. Wien 3: 354, by original designation.
- = *Sachaia* Korshunov, 1988  
Nov Maloizvestiye Vidy Fauny Sib. No. 20: 67-68. Type-species: *Parnassius tenedius* Eversmann, 1851, Bull. Soc. Imp. Nat. Moscou 24(2)(11): 621-622, no. 10, by original designation.
- = ‡*Adoritis* Koçak, 1989  
Priamus 4(4): 165-167. Type-species: *Papilio mnemosyne* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 42, by original designation. A junior objective synonym of *Driopa* Korshunov, 1988.
- = *Quinhaicus* Korshunov, 1990  
Chlenist. Gelmint. sbornik trudov: 99. Type-species: *Parnassius szechenyii* Frivaldszky, 1886, Természettud. Fü. 10: 39, pl. 4, figs. 1,

- 1a, by original designation.
- = *Kreizbergius* Korshunov, 1990  
Chlenist. Gelmint. sbornik trudov: 102. Type-species: *Parnassius simo* G. Gray, [1852], Cat. Lepid. Ins. Brit. Mus. 1: 76, no. 351, pl. 12, figs. 3, 4, by original designation.
  - = *Eversmanniodriopa* Korb, 2005  
Cat. Butt. ex USSR: 13. Type-species: *Parnassius eversmanni* [Ménétriés], [1850], in: Simashko, Russk. Fauna (17) (Lepid.): Pl. 4, fig. 5 ♂ D&V, legend, by original designation.
- \*287. ***Parnassius eversmanni*** [Ménétriés], [1850]  
In: Simashko, Russk. Fauna (17) (Lepid.): Pl. 4, fig. 5 ♂ D&V, legend.  
**Original Combination:** *P[arnassius]. Eversmanni*  
**Type Locality:** Not stated; "Russia" implied from the title of the work; defined as "Kansk" by Ménétriés (1855), Enum. corp. anim. (1): 74, no. 110. [Krasnoyarsk Kray, Russia]  
**Types:** Holotype in ZIN; figured by Chikolovets *et al.* (2002), Butts. Transbaikalia Siberia: pl. 48, fig. 4 ♂ D.  
Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 774, discussed this species. *Nomina collectiva* were proposed for this taxon by Bryk and Eisner (1932), Parnassiana 2: 92-93, Eisner (1955), Zoöl. Meded. 33(17): 139, and (1966), Zool. Verh. (81): 18.
- = ‡*altaica* Verity, [1911]  
Rhop. palae.: 319, pl. 64, fig. 19 ♂ D; ind. syst.: xxiii.  
**Original Combination:** [*Parnassius eversmanni*] race *altaica*  
**Type Locality:** "Tchuja Mts., 1800-2400 m, S.-E. de l'Altai" implied from the legend to plate 64.  
**Types:** Syntypes in BMNH and ZMKU.  
Preoccupied by *Parnassius intermedius* var. *altaica* Ménétriés, 1859, in: Schrenck, Reise Amur-Lande 2(1): 12, 13.
  - = *lacinia* Hemming, 1934  
Stylops 3(9): 198.  
**Original Combination:** *Parnassius eversmanni lacinia*  
Proposed as a replacement name for *Parnassius eversmanni* race *altaica* Verity, [1911], with the same data (Code Article 60.3).
  - = ‡*flavescens* O. Bang-Haas, 1927  
Horae Macrolepid. 1(1): 7.  
**Original Combination:** [*Parnassius eversmanni felderi*] ab. *flavescens*  
**Type Locality:** "Sajan-Gebirgen" [Sayan Mountains, Krasnoyarski Kray, Russia]  
**Types:** "Holotype" in ZMHB.
  - = ‡*ampliusdecora* Eisner, 1928  
Int. Entomol. Z. 22(32): 302.  
**Original Combination:** [*Parnassius eversmanni eversmanni*] ab. *ampliusdecora*  
**Type Locality:** "Sajan-Gebirge" [Sayan Mountains, Krasnoyarski Kray, Russia]  
**Types:** "Holotype" in RMNH.
- a. ***Parnassius eversmanni thor*** Hy. Edwards, 1881  
Papilio 1(1): 4.  
**Original Combination:** *Parnassius Thor*  
**Type Locality:** "about 800 miles up the Yukon river, Alaska"  
**Types:** Holotype in AMNH; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 1 ♀ D.  
*Nomina collectiva* were proposed for this taxon by Bryk and Eisner (1934), Parnassiana 3(1): 15, Bryk (1934), Parnassiana 3(2): 32, and Eisner (1978), Zoöl. Meded. 53(11): 109.
- = ‡*meridionalis* Eisner, 1978  
Zoöl. Meded. 53(11): 109, pl. 2, figs. 9 ♀ D, 10 ♂ D (holotype).  
**Original Combination:** *Parnassius eversmanni meridionalis*  
**Type Locality:** "Pink Mt., B. C., 122° 30' long., 57° lat." [British Columbia]  
**Types:** "Holotype" in RMNH.  
Preoccupied by *Parnassius apollo meridionalis* Pagenstecher, 1909, Entomol. Z. 22(44): 187.
  - = *pinkensis* Gauthier, 1984  
Entomol. Z. 94(21): 319.  
**Original Combination:** *Parnassius eversmanni pinkensis*  
Proposed to replace *meridionalis* Eisner, 1978, with the same data (Code Article 60.3).
  - = ‡*kohlsaati* Gunder, 1932  
Pan-Pac. Entomol. 8(3): 123.  
**Original Combination:** *Parnassius eversmanni* race *thor* tr. f. *kohlsaati*  
**Type Locality:** "McKinley National Park, Alaska" [Denali National Park]  
**Types:** Holotype in AMNH.
288. ***Parnassius clodius*** Ménétriés, 1855
- a. ***Parnassius clodius strohbeeni*** Sternitzky, 1945 †  
Proc. New Engl. Zool. Club 23: 82-83.  
**Original Combination:** *Parnassius clodius strohbeeni*  
**Type Locality:** "Santa Cruz, California" [Santa Cruz County]  
**Types:** Holotype (#27214) in MCZ.  
= ‡*dodgei* Gunder, 1932

Pan-Pac. Entomol. 8(3): 123; cited J. A. Comstock (1927), Butts. Calif.: pl. 5, fig. 6 ♂ D.

**Original Combination:** *Parnassius clodius* tr. f. *dodgei*

**Type Locality:** "Santa Cruz Hills, Santa Cruz, California" [Santa Cruz County]

**Types:** "Holotype" in AMNH.

b. *Parnassius clodius clodius* Ménétriés, 1855

Enum. corp. anim. (1): 7, no. 109; 73, no. 109.

**Original Combination:** *Parnassius clodius*

**Type Locality:** "Californie"; defined as "Marin county...Bear Valley" by J. Shepard and S. Shepard (1975), *in*: Howe, Butts. N. Am.: 405.

**Types:** Type(s) may be in ZIN.

*Nomina collectiva* were proposed for this taxon by Bryk and Eisner (1932), *Parnassiana* 2(6-8): 96, (1937), *Parnassiana* 5(1/3): 4, Eisner (1955), *Zoöl. Meded.* 33(17): 141, and (1957), *Zoöl. Meded.* 35(8): 87.

= *†*"castus" Bryk, 1913

*Arch. Naturgesch.* (A)79(3): 2-3, no. 7; cited *Parnassius clodius* (*sensu* W. H. Edwards (1871), Butts. N. Am. [1](7): pl. *Parnassius* 1, fig. 5 ♂ D).

**Original Combination:** *Parnassius clodius* ab. *castus*

**Type Locality:** Not stated.

**Types:** "Holotype" (#375) in ZMHB.

c. *Parnassius clodius claudianus* Stichel, 1907

*In*: Wytsman, *Gen. Ins.* 58: 15, no. 5c (nota 1); cited *Parnassius clodius* (*sensu* Verity [1907], *Rhop. Pal.*: pl. 22, figs. 17 ♂ D, 18 ♂ D, 19 ♀ D).

**Original Combination:** *Parnassius clodius claudianus*

**Type Locality:** "Washington"; "western Washington" according to J. Shepard and S. Shepard (1975), *in*: Howe, Butts. N. Am.: 405.

**Types:** Syntypes (#27918, 27919, 27920, 27921) in ZMHB. The specimen cited by Verity (fig. 19, ♀ from British Columbia) is in ZMKU.

*Nomina collectiva* were proposed for this taxon by Eisner (1955), *Zoöl. Meded.* 33(17): 142, and (1957), *Zoöl. Meded.* 35(8): 88-89.

= *baldus* Ehrmann, 1918

*Lepidoptera* 2(4): 29.

**Original Combination:** *Parn[assius]. smintheus* v. *baldus*

**Type Locality:** "Olympic Mtns., Washington" [Clallam County]

**Types:** Holotype in CMNH.

= *†kallias* Ehrmann, 1918

*Lepidoptera* 2(6): 41.

**Original Combination:** *Parn[assius]. clodius* var. *kallias*

Proposed to replace *baldus* Ehrmann, 1918, erroneously thought preoccupied; a junior objective synonym of *baldus*.

d. *Parnassius clodius pseudogallatinus* Bryk, 1913

*Arch. Naturgesch.* (A)79(3): 3; cited *Parnassius clodius* (*sensu* Verity [1907], *Rhop. palae.*: pl. 22, figs. 17 ♂ D, 18 ♂ D, 19 ♀ D); figured by Bryk (1935), *Tierreich* 65: fig. 158 ♂ D.

**Original Combination:** *Parnassius clodius* var. *pseudogallatinus*

**Type Locality:** "Brit. Columb. (Yale 1890)"

**Types:** Syntypes in ZMHB and BMNH.

*Nomina collectiva* were proposed for this taxon by Eisner (1955), *Zoöl. Meded.* 33(17): 143, and (1957), *Zoöl. Meded.* 35(8): 89.

= *hel* Eisner, 1956

*Zoöl. Meded.* 34(18): 243-244, pl. 3, figs. 1 ♂ D (holotype), 2 ♀ D.

**Original Combination:** *Parnassius clodius hel*

**Type Locality:** "Stevens Pass, Mts. Cascade, Washington, 4500'" [King-Chelan counties]

**Types:** Holotype in RMNH.

*Nomina collectiva* were proposed for this taxon by Eisner (1956), *Zoöl. Meded.* 34(18): 243, pl. 2, figs. 5 ♂ D, 6 ♂ V, and (1957), *Zoöl. Meded.* 35(8): 89.

e. *Parnassius clodius incredibilis* Bryk, 1932

*Parnassiana* 2(3): 33.

**Original Combination:** *Parnassius clodius incredibilis*

**Type Locality:** "St. Ilja, Alaska, U.S.A." [Mt. St. Elias, Alaska]

**Types:** Holotype in BMNH.

It is possible that the type of this taxon was mislabeled.

f. *Parnassius clodius sol* Bryk & Eisner, 1932

*Parnassiana* 2(6-8): 97, fig. 6 ♂ D (holotype); figured by Bryk (1935), *Tierreich* 65: fig. 157 ♂ D (holotype).

**Original Combination:** [*Parnassius clodius*] *sol*

**Type Locality:** "Nevada"; corrected to "Sierra-Nevada" [California] by Eisner (1961), *Zool. Meded.* 37(11): 172; defined as "California...Baxters, Placer County" by J. Shepard and S. Shepard (1975), *in*: Howe, Butts. N. Am.: 405.

**Types:** Holotype in RMNH.

*Nomina collectiva* were proposed for this taxon by the authors at the time of the original description.

= *†*"sulfureus" Gunder, 1932



Pan-Pac. Entomol. 8(3): 124.

**Original Combination:** *Parnassius clodius* race *baldur* tr. f. *sulfureus*

**Type Locality:** "Davis Creek, Modoc County, California"

**Types:** "Holotype" in AMNH.

g. *Parnassius clodius baldur* W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 12, no. 24; cited *Parnassius clarius* (*sensu* W. H. Edwards (1871), Butts. N. Am. [1](7): pl. *Parnassius* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V).

**Original Combination:** *Parnassius baldur*

**Type Locality:** "California, Sierras; Utah; Montana"; defined as "Tioga Pass" by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 5. [Mono-Tuolumne counties, California]

**Types:** Lectotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 5, fig. 1 ♂ D&V.

*Nomina collectiva* were proposed for this taxon by Bryk and Eisner (1932), *Parnassiana* 2: 97, Eisner (1955), *Zoöl. Meded.* 33(17): 142, and (1957), *Zoöl. Meded.* 35(8): 87-88.

= ‡"lorquini" Oberthür, 1891

Étud. Entomol. 14: 7, 17-18, pl. 2, fig. 17 ♂ D ("holotype").

**Original Combination:** *Parnassius clodius* ab. *lorquini*

**Type Locality:** "Californie"

**Types:** "Holotype" in BMNH?

= ‡"lusca" Stichel, 1907

In: Wytsman, Gen. Ins. 58: 14, no. 5bα (nota 1).

**Original Combination:** *Parnassius clodius baldur* forma *lusca*

**Type Locality:** "Californien"

**Types:** "Holotype" may be in SMNS (Seitz collection).

= ‡"binigrimaculella" Gunder, 1926

Entomol. News 37(1): 8-9, no. 13, pl. 1, figs. 13 ♂ D ("holotype").

**Original Combination:** *Parnassius clodius* var. *baldur* ab. ♂ *binigrimaculella*

**Type Locality:** "Gold Lake, Sierra County, California"

**Types:** "Holotype" in AMNH.

h. *Parnassius clodius altaurus* Dyar, 1903

Proc. Entomol. Soc. Wash. 5(4): 290-291.

**Original Combination:** *Parnassius clodius* var. *altaurus*

**Type Locality:** "Alturas Lake, near Saw-tooth Mt., Idaho, 7,000-9000 feet"

**Types:** Holotype (#6769) in USNM.

Dyar [1903], Bull. U. S. Nat. Mus. 52: 1, no. 1, listed this name without a description or indication; a *nomen nudum*. A *nomen collectivum* was proposed for this taxon by Bryk and Eisner (1932), *Parnassiana* 2(6): 96.

= *gallatinus* Stichel, 1907

In: Wytsman, Gen. Ins. 58: 15, no. 5d (nota 2); cited *Parnassius clodius* (*sensu* Elrod and Maley (1906), Bull. Univ. Montana 30, (Biol. Ser.) 2(10): fig. 15 ♀ & ♂ D).

**Original Combination:** *Parnassius clodius gallatinus*

**Type Locality:** "aus dem südlichen Teile von Montana"; suggested to be "Gallatin Co. Mont./ Elev. 6800" by Kohler (1978), J. Lepid. Soc. 32(1): 1-2.

**Types:** Lectotype in AMNH, designated by Kohler (1978), J. Lepid. Soc. 32(1): 1-2, figs. 1 ♂ D, 2 ♂ V (figs. 3 ♀ D, 4 ♀ V are of the sole paralectotype).

*Nomina collectiva* were proposed for this taxon by Eisner (1955), *Zoöl. Meded.* 33(17): 143, and (1957), *Zoöl. Meded.* 35(8): 89.

= *immaculata* Skinner, 1911

Entomol. News 22(3): 108; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 7 ♂ D (holotype).

**Original Combination:** *Parnassius immaculata*

**Type Locality:** "Old Faithful Geyser, Yellowstone Park, Wyoming"

**Types:** Holotype (#7025) in ANSP; figured by W. Holland (1931), Butt. Book. (rev. ed.): pl. 75, fig. 3 ♂ D.

= *shepardi* Eisner, 1966

*Zoöl. Meded.* 41(8): 145-146, pl. 1, figs. 1 ♂ D (holotype), 2 ♀ D.

**Original Combination:** *Parnassius clodius shepardi*

**Type Locality:** "Wawawai, Snake River, Whitman Co., Washington, U.S.A."

**Types:** Holotype in RMNH.

A. Warren (2005), Butts. Ore.: 59, discussed this taxon and its placement in synonymy.

*Nomina collectiva* were proposed for this taxon by Eisner (1966), *Zoöl. Meded.* 41(8): 145.

i. *Parnassius clodius menetriesii* Hy. Edwards, 1877

Proc. Calif. Acad. Sci. [1]7(12-13): 164-165.

**Original Combination:** *Parnassius Menetriesii* n. var. of *Clodius*

**Type Locality:** "Bear Valley, Sierra Nevada...Lake Tahoe...Downieville, Cal[ifornia]...Mt. Nebo, Utah"; lectotype from "Mt. Nebo, Utah." [Juab-Utah counties]

**Types:** Lectotype in AMNH; designated by W. Barnes and McDunnough (1918), Contr. Nat. Hist. Lepid. N. Am. 4(2): 62; figured by Skinner (1916), Entomol. News 27(5): pl. 12, fig. 3 ♂ D.

A *nomen collectivum* was proposed for this taxon by Eisner (1957), *Zoöl. Meded.* 35(8): 90.

\*289. *Parnassius phoebus* (Fabricius, 1793)

Entomol. Syst. 3(1): 181, no. 561; cited Jones' Icones 2: pl. 2, fig. 2.

**Original Combination:** *P[apilio] P[arnassius]*. *Phoebus*

**Type locality:** “in Siberia Mus. Doin. Drury”; “neotypes” from “Altai: Ongodai, Kurai Paß, Arassam Quelle.” [Altai Republic, Altay Kray, Russia]

**Types:** Type(s) presumed lost. “Neotypes” in ZMHB, designated by Bryk (1935), Tierreich 65: 219, figs. 215 ♂ D, 215a ♀ D, but this action violated Code Article 75. Bryk designated two neotypes, which is improper procedure. It is presumed that one will eventually be accepted as the neotype. Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 776, discussed the probable type locality for this species. They determined that Pallas (collector of the original specimen) probably sent the type to Drury, which became the basis for William Jones’ unpublished figure. The details of Pallas’ journey indicate two regions from which *phoebus* might have been collected: 1) the Irtysh Valley, Western and Northern Altai, or 2) the Transbaikalian area of the Yenisey. Nekrutenko and Kerzhner considered that the Altai region was more probable. The nomenclature proposed by J. Shepard and Manley (1998), Syst. W. N. Am. Butts. (58): 717-726, is followed herein. Also see Gluschenko and Martynenko (1997), Anim. Veg. World Far East: 31-40, (2000), Kurentsov’s Ann. Mem. Mtgs. 11: 63-96, Martynenko *et al.* (2003), Helios 4: 75-91, Churkin (2004), Helios 5: 110-114, and Omoto, *et al.* (2004), Gene 326: 141B147, where divergent arguments are presented.

= *altaica* Ménétriés, 1859

*In:* Schrenck, Reise Amur-Lande 2(1): 12-13, under no. 53.

**Original Combination:** *Parnassius Phoebus* var. *intermedius* Forme *altaica*

**Type Locality:** “l’Altai” [Altai Republic, Altay Kray, Russia]

**Types:** Lectotype in ZIN, designated by Nekrutenko and Kerzhner (1986), Entomol. Obozr. 65(4): 775.

= *halasicus* Huang & Murayama, 1992

Tyo to Ga 43(1): 3, fig. 4 ♂ D.

**Original Combination:** *Parnassius phoebus halasicus*

**Type Locality:** “Halasai, Altai, 1700-1900 m, grassland in forest zone to subalpine grassland” [Xinjiang Uygur, China]

**Types:** Holotype in Xinjiang University, China.

= *virginea* Austaut, 1910

Entomol. Z. 24(11): 55.

**Original Combination:** *Parnassius Ruckbeil* ab. *virginea*

**Type Locality:** “Barkoul [sic]” [Barnaul, Altai Kray, Russia]

**Types:** Location of “type(s)” not known; possibly at MNHP.

= *alpestris* Verity, [1911]

Rhop. palae.: 314 [31 Jan 1911]; pl. 63, figs. 19 ♂ D, 20 ♀ D; ind. syst.: xx [31 Oct 1911].

**Original Combination:** *P[arnassius]. delius* var. *intermedius* forme *alpestris*, from the legend to plate 63 and the index.

**Type Locality:** “l’Altai...hauts sommets” implied from the text, “Tchujia mountains, 1800-2400m” from the legend to plate 63. [Altai Republic, Altay Kray, Russia]

**Types:** “Syntypes” in BMNH and ZMKU.

= *melanica* Verity, [1911]

Rhop. palae.: 314 [31 Jan 1911]; pl. 63, fig. 18 ♂ D (“holotype”); ind. syst.: xx [31 Oct 1911].

**Original Combination:** *P[arnassius]. delius* var. *intermedius* ♀ ab. *melanica*, from the legend to plate 63 and the index.

**Type Locality:** “l’Altai...des vallées” implied from the text, “Kuraipan, 2100m., Altai” from the legend to plate 63. [Altai Republic, Altay Kray, Russia]

**Types:** “Holotype” in BMNH.

= *leucostigma* Austaut, 1912

Int. Entomol. Z. 6(13): 87, 125.

**Original Combination:** *Parnassius Ruckbeil* ab. *leucostigma*

**Type Locality:** “alpe de Chamil-Hami” “alpes de Chamil” [Barnaul, Altai Kray, Russia]

**Types:** Location of “holotype” not known; possibly at MNHP.

= *punctatus* Bryk, 1912

Soc. Entomol. 27(12): 57.

**Original Combination:** *Parnassius delius* ab. *punctatus*

**Type Locality:** “Altai” [Altai Republic, Altay Kray, Russia]

**Types:** “Holotype” probably in RMNH.

= *reciprocus* Bryk, 1913

Soc. Entomol. 28(16): 95.

**Original Combination:** *Parnassius phoebus* var. *intermedia* ab. *reciprocus*

**Type Locality:** “Altai” [Altai Republic, Altay Kray, Russia]

**Types:** “Holotype” probably in RMNH.

a. *Parnassius phoebus apricatus* Stichel, 1906

Berl. Entomol. Z. 51(1): 87, pl. 2, figs. 13a ♂ D, 13b ♀ D.

**Original Combination:** *Parnassius phoebus apricatus*

**Type Locality:** “aus Kadiak, Insel südlich von Alaska, Nord-Amerika” [Kodiak Island, Alaska]

**Types:** Syntypes in ZMHB; figured by Bryk (1935), Tierreich 65: figs. 234 ♂ D, 234a ♀ D.

= *elias* Bryk, 1934

Parnassiana 3(2): 31-32, no. 41; figured by Bryk (1935), Tierreich 65: fig. 233 ♂ D.

**Original Combination:** *Parnassius phoebus elias*

**Type Locality:** “St. Ilja (Alaska)”

**Types:** Holotype in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 3 ♂ D.

= *alaskensis* Eisner, 1956

Zoöl. Meded. 34(18): 244-245, pl. 3 figs. 7 ♂ D (holotype), 8 ♀ D.

**Original Combination:** *Parnassius phoebus alaskensis*

**Type Locality:** "Mt. Kinley Park, Alaska centr."; stated as "Mount McKinley National Park" by Eisner (1957), Zoöl. Meded. 35(8): 95. [Denali National Park]

**Types:** Holotype in RMNH.

This was spelled "alaskaensis" by Eisner (1957), Zoöl. Meded. 35(8): 95, representing either an incorrect subsequent spelling of *alaskensis* Eisner, 1956, or an unjustified emendation.

b. ***Parnassius phoebus golovinus*** W. Holland, 1930

Ann. Carnegie Mus. 19(3): 155-156; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 69, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.

**Original Combination:** *Parnassius golovinus*

**Type Locality:** "Golovin Bay" [NW Alaska]

**Types:** Syntypes in CMNH.

290. ***Parnassius behrii*** W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, no. 1; figured by W. H. Edwards (1872), Butts. N. Am. [1](10): pl. *Parnassius* 3, fig. 3 ♂ D&V.

**Original Combination:** *Parnassius Behrii*

**Type Locality:** "Sierra Nevada"; defined as "top of Mt. Lyell, at an altitude of nearly 11,000 ft." by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 11; neotype from "Tioga Pass, Cal." [Mono-Tuolumne counties, California]

**Types:** Neotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 12, fig. 3 ♂ D&V.

*Nomina collectiva* were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 97.

= *niger* W. G. Wright, 1905

Butts. W. Coast. 47, no. 10; 79, no. 10, pl. 2, fig. 10 ♂ D (holotype).

**Original Combination:** [*Parnassius Smintheus* var.] *Niger*, *Parnassius Niger* n. v.

**Type Locality:** "Sierra Nevada" "Summit, Cal." [Donner Summit, Sierra County, California]

**Types:** Holotype (#4278) in CAS.

= *astriotes* Fruhstorfer, 1923

Soc. Entomol. 38(2): 5.

**Original Combination:** *P[arnassius]. delius astriotes*

**Type Locality:** "California, Süd-Ost Sierra"

**Types:** Syntypes in ZSMC.

291. ***Parnassius smintheus*** E. Doubleday, 1847

a. ***Parnassius smintheus sternitzkyi*** McDunnough, 1937

Can. Entomol. 68(12): 273-274, figs. of ♂ D (holotype) and ♀ D.

**Original Combination:** *Parnassius smintheus* var. *sternitzkyi*

**Type Locality:** "Castle Lake, Siskiyou Co. Calif." [California]

**Types:** Holotype (#4116) in CNC.

W. H. Edwards (1862), Proc. Acad. Nat. Sci. Philad. 14: 225, no. 10, redescribed *Parnassius smintheus* from "California." A "neotype" of this misidentification was designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 6; this is the holotype of *sternitzkyi*.

*Nomina collectiva* were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 98.

b. ***Parnassius smintheus olympianna*** Burdick, 1941

Can. Entomol. 73(7): 117-118, figs. ♂ D, ♀ D.

**Original Combination:** *Parnassius smintheus olympianna*

**Type Locality:** "Hurricane Ridge, Olympic Range, Clallam Co., Washington"

**Types:** Holotype (#5191) in CNC.

Species-genus gender conformation is *olympiannus*.

= *guppyi* Wyatt, 1969

Z. wien. entomol. Ges. 54[80](9-12): 132-133, pl. 15, figs. 1 ♂ D (holotype), 2 ♀ D, 3 ♂ D, 4 ♀ D.

**Original Combination:** *Parnassius phoebus guppyi*

**Type Locality:** "Mt. Arrowsmith, Vancouver-Insel, Britisch Kolumbien, Kanada, 1500 m"

**Types:** Holotype in LNKD.

*Nomina collectiva* were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 96-97.

c. ***Parnassius smintheus yukonensis*** Eisner, 1969

Zoöl. Meded. 43(14): 175; figured by Eisner (1976), Zool. Verh. (146): pl. 2, fig. 9 ♂ D.

**Original Combination:** *Parnassius phoebus yukonensis*

**Type Locality:** "5 miles s.w. Haines Junction, Yukon" [Yukon Territory]

**Types:** Holotype in RMNH.

d. ***Parnassius smintheus smintheus*** E. Doubleday, 1847

In: Gen. diurn. Lepid. (1)(3): 26; 27, no. 8, pl. 4\*, fig. 4 ♂ D.

**Original Combination:** *Parnassius Smintheus*

**Type Locality:** "Rocky Mountains"; defined as "vicinity of Rock Lake, [near Jasper] Alberta (53°27'N, 118°16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

**Types:** Lectotype in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 41.

*Nomina collectiva* were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 150, (1957), Zoöl. Meded. 35(8): 96, and (1966), Zool. Verh. (81): 25, no. 273.

= *nanus* Neumoegen, 1890

Entomol. Am. 6(4): 61-62.



**Original Combination:** *Parnassius smintheus* var. *nanus*

**Type Locality:** “near Fort Calgary [*sic!*]...at Spence’s Bridge, both places being in British Columbia” [Fort Calgary is in Alberta]

**Types:** Syntypes in USNM; two figured by Skinner (1916), Entomol. News 27(5): pl. 12, figs. 4 ♀ D (‘Ft. Calgary’), 5 ♂ D (‘British Columbia’).

McDunnough (1936), Can. Entomol. 68(10): 223, discussed the Spence’s Bridge locality. Upon any future lectotype designation, the position of this taxon in the synonymy of *P. smintheus* may require revision.

= *manitobaensis* Bryk & Eisner, 1935

Parnassiana 3(4/5): 55.

**Original Combination:** [*Parnassius phoebus*] *manitobaensis*

**Type Locality:** “Manitoba, End-Mountains”; corrected to “End Mountain, Alta.” by McDunnough (1936), Can. Entomol. 68(2): 43; further defined as “End Mountain, near Exsham, Alberta” by Eisner (1957), Zoöl. Meded. 35(8): 96.

**Types:** Holotype in ZMHB.

= ‡“nigerrima” Verity, [1907]

Rhop. palae.: 108 [31 Oct 1907]; pl. 16, fig. 23 ♀ D (“holotype”) [28 Feb 1907]; ind. syst.: xx [31 Oct 1911].

**Original Combination:** *Parnassius delius* var. *smintheus* forme *hermodur* ab. *nigerrima*

**Type Locality:** “Montagnes Rocheuses de la Colombie Britannique” implied from the legend to plate 16.

**Types:** “Holotype” in ZMKU.

Date of publication is that of plate 16; original combination is from page 108.

= ‡“minor” Verity, [1911]

Rhop. palae.: pl. 16, fig. 21 ♂ D (“holotype”) [28 Feb 1907], ind. syst.: xx [31 Oct 1911].

**Original Combination:** *P[arnassius]. delius* var. *smintheus* forme *minor*

**Type Locality:** “Montagnes Rocheuses de la Colombie Britannique” implied from the legend to plate 26.

**Types:** “Holotype” in ZMKU.

Date of publication is that of plate 16; original combination is from the legend to plate 16.

= ‡“minusculus” Bryk, 1912

Soc. Entomol. 27(12): 58, fig. 4 ♂ D&V (“holotype”).

**Original Combination:** *Parnassius* v. *smintheus* ab. *minusculus*

**Type Locality:** “Colorado” apparently in error.

**Types:** “Holotype” in RMNH.

Original combination given on figure.

= ‡“ernestinae” Bryk & Eisner, 1935

Parnassiana 3(4/5): 51.

**Original Combination:** *Parnassius phoebus smintheus* form *ernestinae*

**Type Locality:** “Ptarmigan-Paß 135° 20’ / 50° 20’’ [Alberta]

**Types:** “Holotype” in RMNH.

= ‡“verity” Ehrmann, 1918

Lepidoptera 2(4): 30.

**Original Combination:** *Parnassius verity*

Proposed to replace *minor* Verity, [1907], but unavailable names cannot be replaced (Code Article 1.3.4).

‡“rocky” Grun-Grshimailo, 1890

In: Romanov, Mém. Lépid. 4: 149 (note 9).

**Original Combination:** [*Parnassius Smintheus* var.] *Rocky*

Proposed without a description or indication; a *nomen nudum*.

e. *Parnassius smintheus magnus* W. G. Wright, 1905

Butts. W. Coast: 47, no. 13; 80-81, no. 13, pl. 2, figs. 13 ♂ D (lectotype), 13b ♀ D.

**Original Combination:** [*Parnassius Smintheus* var.] *Magnus*; *Parnassius magnus* n. v.

**Type Locality:** “British Columbia” “Enderby, B. C.”

**Types:** Lectotype (#4279) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 5.

*Nomina collectiva* were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 152, and (1957), Zoöl. Meded. 35(8): 97-98.

= *xanthus* Ehrmann, 1918

Lepidoptera 2(3): 21-22.

**Original Combination:** *Par[nassius]. Smintheus* var. *xanthus*

**Type Locality:** “Moron [*sic!*], Idaho” [Moscow, Latah County, Idaho]

**Types:** Syntypes in CMNH.

*Nomina collectiva* were proposed for this taxon by Eisner (1955), Zoöl. Meded. 33(17): 152, and (1957), Zoöl. Meded. 35(8): 98-99.

= *idahoensis* Bryk & Eisner, 1931

Parnassiana 1(5): 5-6, fig. 4 ♂ D&V, 5 ♀ D&V; figured by Bryk (1935), Tierreich 65: figs. 231, ♂ D&V (holotype), 231a ♀ D&V.

**Original Combination:** *P[arnassius] phoebus idahoensis*

**Type Locality:** “Wallace, Idaho” [Shoshone County]

**Types:** Holotype in RMNH.

= *montanula* Bryk & Eisner, 1935

Parnassiana 3(4/5): 55; figured by Eisner (1957), Zoöl. Meded. 35(8): pl. 4, figs. 5 ♀ D (holotype), 6 ♂ D, 7 ♀ D, 8 ♂ D.

- Original Combination:** [*Parnassius phoebus*] *montanula*  
**Type Locality:** "Turah, Montana" [Missoula County]  
**Types:** Holotype in RMNH.  
 = ♀ "mendica" Stichel, 1907  
*In:* Wytzman, Gen. Ins. 58: 20, no 9ha (nota 1); cited Neumoege (1890), Entomol. Am. 6(4): 61, and W. G. Wright (1905), Butts. W. Coast: 79.  
**Original Combination:** *P[arnassius]. phoebus smintheus* forma *mendica*  
**Type Locality:** "Montana, Brit. Columbia, Colorado"  
**Types:** "Types" should be in ZMHB.  
 Upon any future lectotype designation, the position of this taxon in the synonymy of *P. smintheus* may require revision.
- f. ***Parnassius smintheus maximus*** Bryk & Eisner, 1937  
*Parnassiana* 5(1-3): 7; cited *Parnassius phoebus sayii* (*sensu* Bryk and Eisner (1935), *Parnassiana* 3(4/5): 54); figured by Eisner (1957), Zoöl. Meded. 35(8): pl. 4, figs. 1 ♀ D (holotype), 2 ♂ D, 3 ♀ D, 4 ♂ D.  
**Original Combination:** *Parnassius smintheus maximus*  
**Type Locality:** "Judith Mts., Montana, U.S.A." [Fergus County]  
**Types:** Holotype in RMNH.  
 = ♀ "pseudocorybas" Verity, [1909]  
*Rhop. palae.*: 107 [31 Oct 1907]; pl. 24, figs. 12 ♂ D, 13 ♀ D [31 Dec 1909]; ind. syst.: xx [31 Oct 1911].  
**Original Combination:** *P[arnassius]. delius* var. *apricatus* forme *pseudocorybas*  
**Type Locality:** "Montana" implied from the text, "Montana, Montagnes Rocheuses" from the legend to plate 24.  
**Types:** Location of "types" not known (possibly in MNHP).  
 Date of publication and original combination determined from the legend to plate 24.  
*Nomina collectiva* were proposed for this taxon by Eisner (1957), Zoöl. Meded. 35(8): 99.
- g. ***Parnassius smintheus sayii*** W. H. Edwards, 1863  
*Proc. Entomol. Soc. Philad.* 2[2]: 78, no. 1; figured by W. H. Edwards (1872), Butts. N. Am. [1](10): pl. *Parnassius* 2, figs. 2 ♀ D&V.  
**Original Combination:** *Parnassius Sayii*  
**Type Locality:** "Pikes Peak"; corrected to "gold region west of Denver" by F. Brown (1975), *Trans. Am. Entomol. Soc.* 101(1): 6; neotype from "Running Creek Field Sta., 6950', Elbert Co., Colo., T9S R65W, SW ¼ 25." [Colorado]  
**Types:** Neotype in CMNH, designated by F. Brown (1975), *Trans. Am. Entomol. Soc.* 101(1): 9, fig. 2 ♀ D&V.  
*Nomina collectiva* were proposed for this taxon and its synonyms by Bryk and Eisner (1935), *Parnassiana* 3(4/5): 55, Eisner (1955), Zoöl. Meded. 33(17): 151, and (1957), Zoöl. Meded. 35(8): 98, 100, 102, 103, 104.  
 = *hermodur* Hy. Edwards, 1881  
*Papilio* 1(1): 4.  
**Original Combination:** *Parnassius Hermodur*  
**Type Locality:** "Southern Colorado"  
**Types:** Holotype in AMNH; figured by Skinner (1916), *Entomol. News* 27(5): pl. 12, fig. 8 ♀ D.  
 Scott (1992), *Papilio* (n.s.) 6: 6-7, treated this as a subspecies-level taxon, a position which would require a thorough reevaluation of the synonymy of *P. s. sayi*.  
 = *polus* Ehrmann, 1917  
*Lepidopterist* 1(7): 54-55.  
**Original Combination:** *Parnassius polus*  
**Type Locality:** "Ashcroft, Pitkin [sic] County, Colorado" [Pitkin County]  
**Types:** Syntypes in CMNH.  
 = *montanus* Ehrmann, 1918  
*Lepidoptera* 2(4): 29-30.  
**Original Combination:** *Parn[assius]. smintheus* v. *montanus*  
**Type Locality:** "Bullion Peak, Colorado" [Park County]  
**Types:** Syntypes in CMNH.  
 = *utahensis* Rothschild, 1918  
*Novit. Zool.* 25(1): 233.  
**Original Combination:** *Parnassius phoebus utahensis*  
**Type Locality:** "Park City, Utah" [Summit County]  
**Types:** Syntype in BMNH.  
 = *catullius* Fruhstorfer, 1923  
*Soc. Entomol.* 38(2): 5.  
**Original Combination:** *Parnassius delius catullius*  
**Type Locality:** "Colorado, Pikes Peak...ca. 12-13 500 fuß" [El Paso-Teller counties]  
**Types:** Syntypes said to be in Fruhstorfer collection, but may be in SMNS (Seitz collection).  
 = *aristion* Fruhstorfer, 1923  
*Soc. Entomol.* 38(2): 5.  
**Original Combination:** *P[arnassius]. delius aristion*  
**Type Locality:** "Colorado"  
**Types:** Holotype said to be in ZSMC, but may be in SMNS (Seitz collection).  
 = *sordellus* Fruhstorfer, 1923  
*Soc. Entomol.* 38(2): 5.

**Original Combination:** *P[arnassius]. delius sordellus*

**Type Locality:** "Nordamerika-näherer Fundort unbekannt"

**Types:** Syntypes possibly in ZSMC.

- = *hollandi* Bryk & Eisner, 1935

Parnassiana 3(4/5): 53; figured by Eisner (1955), Zoöl. Meded. 33(17): pl. 23, figs. 1 ♂ D, 2 ♀ D, 3 ♂ D, 4 ♀ D.

**Original Combination:** [*Parnassius phoebus*] *hollandi*

**Type Locality:** "La Sal Mts., Turpus Valley, Californien [sic!]" [Grand-Wayne counties, Utah]

**Types:** Holotype in RMNH.

ZMHB was originally noted as the repository of the type, but Eisner (1966), Zool. Verh. (81): 24, claimed to have deposited the holotype and allotype in RMNH.

- = *dakotaensis* Bryk & Eisner, 1935

Parnassiana 3(4/5): 55; figured by Eisner (1966), Zool. Verh. (81): pl. 22, figs. 4 ♂ D (holotype), 5 ♀ D.

**Original Combination:** [*Parnassius phoebus*] *dakotaensis*

**Type Locality:** "Black Hills, Mt. Roosevelt, Dakota merid." [Lawrence-Pennington counties, South Dakota]

**Types:** Holotype noted to be in RMNH, but "syntype" series apparently split between that institution and ZMHB.

- = *rotgeri* O. Bang-Haas, 1938

Parnassiana 6(3/4): 20, pl. 1, figs. 6 ♂ D, 9 ♀ D.

**Original Combination:** [*Parnassius*] *phoebus rotgeri*

**Type Locality:** "Colorado, westl. von Denver, Evans mont., Clear Creek, 3800 m" [Mount Evans, Clear Creek County, Colorado]

**Types:** Syntypes probably in ZMHB.

- = *rubina* Wyatt, 1961

Z. wien. entomol. Ges. 46[72](9): 145-146, pl. 11, figs. 1 ♂ D (holotype), 2 ♀ D.

**Original Combination:** *Parnassius phoebus rubina*

**Type Locality:** "Liberty Peak, 3,120 m, Ruby Gebirge, südlich von Elko, Nevada"; redefined as "above Liberty Lake, Ruby Mountains, Elko County, Nevada" by Austin (1998), Syst. W. N. Am. Butts. (50): 630.

**Types:** Holotype in LNKD.

- = ♯"leonhardi" Bryk, 1912

Soc. Entomol. 27(12): 57, fig. 1 ♂ D&V ("holotype").

**Original Combination:** *Parnassius v. smintheus* ab. *Leonhardi*

**Type Locality:** "Colorado"

**Types:** "Holotype" should be in MTD; figured by Bryk (1921), Entomol. Tidskr. 42(2): 114, fig. 3 ♂ V, 4 ♂ D.

Original combination as given on figure.

- = ♯"mariae" Bryk, 1912

Soc. Entomol. 27(12): 57-58, fig. 3 ♂ D&V ("holotype").

**Original Combination:** *Parnassius v. smintheus* ab. *Mariae*

**Type Locality:** "Colorado"

**Types:** "Holotype" should be in MTD (O. Bang-Haas collection).

- = ♯"quincunx" Bryk, 1915

Arch. Naturgesch. (A)80(7): pl. 9, fig. 67 ♂ ("cotype"); (9): 140, text.

**Original Combination:** *Parnassius smintheus* ab. *quincunx*

**Type Locality:** Not stated; suggested to be "Colorado, U.S.A." by Eisner (1966), Zool. Verh. (81): 25.

**Types:** "Cotype" in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 6 ♂ D.

- = ♯"fermata" Bryk, 1921

Entomol. Tidskr. 42(2): 112-114, figs. 1 ♂ D ("holotype").

**Original Combination:** *Parnassius smintheus* ab. *fermata*

**Type Locality:** "Denver Colorado Rocky mountains"

**Types:** "Holotype" in RMNH; figured by Eisner (1966), Zool. Verh. (81): pl. 22, fig. 6 ♂ D.

- = ♯"melanophorus" Bryk, 1921

Entomol. Tidskr. 42(2): 114, fig. 2 ♂ D ("holotype").

**Original Combination:** [*Parnassius smintheus*] ab. *melanophorus*

**Type Locality:** "Denver Colorado Rocky mountains"

**Types:** "Holotype" in RMNH.

- = ♯"reducta" O. Bang-Haas, 1938

Parnassiana 6(3/4): 20.

**Original Combination:** [*Parnassius phoebus rotgeri*] f[orm]. *reducta*

**Type Locality:** "Colorado, westl. von Denver, Evans mont., Clear Creek, 3800 m" [Mount Evans, Clear Creek County, Colorado]

**Types:** "Holotype" should be in ZMHB.

- h. *Parnassius smintheus pseudorotgeri* Eisner, 1966

Zoöl. Meded. 41(8): 144.

**Original Combination:** *Parnassius phoebus pseudorotgeri*

**Type Locality:** "Elwood-Pass, Rio Grande Co., Colorado, U.S.A."

**Types:** Holotype in RMNH.

Eisner (1964), Zoöl. Meded. 40(16): 135-136, credited this name to F. Chermock; a *nomen nudum*. Subsequently, Eisner (1966), adopted the name and described it based on his own specimens.

*Nomina collectiva* were proposed for this taxon by Eisner (1966), Zoöl. Meded. 41(8): 144.



Subfamily **Papilioninae** Latreille, [1802]Tribe **Troidini** Talbot, 1939

Fauna Brit. Ind., Butts. 1 (ed. 2): 60 (key), 61. Type-genus: *Troides* Hübner, [1819], Verz. bekannt. Schmett. (6): 88.

Subtribe **Troidina** Talbot, 1939Genus **Parides** Hübner, [1819]

Verz. bekannt. Schmett. (6): 87. Type-species: *Princeps echelus* Hübner, [1815], Samml. exot. Schmett. 1: pl. [126], figs. 1, 2 (= *Princeps echemon* Hübner, [1813], Samml. exot. Schmett. 1: pl. [121], figs. 3, 4; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 241, no. 811.

Subgenus **Parides** Hübner, [1819]

- = *Hectorides* Hübner, 1821  
Index. exot. Lepid.: [1], [2]. Type-species: *Papilio agavus* Drury, 1782, Ill. Nat. Hist. 3: 11, index, pl. 9, fig. 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 184, no. 502.
  - = *Endopogon* Lacordaire, 1833  
Annls. Soc. Entomol. Fr. [1]2: 384. Type-species: *Papilio sesostris* Cramer, 1779, Uitl. Kapellen 3(18): 34, pl. 211, figs. F, G; (24): 176, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 162, no. 377.
  - = *Ascanides* Geyer, 1837  
In: Hübner, Zutr. Samml. exot. Schmett. 5: 32. Type-species: *Papilio triopas* Godart, 1819, Ency. méth. 9(Ins.) (1): (14), 33, no. 23 (= *Parides chabrias ygdrasilla* Hemming (1935), Entomol. 68(2)[861]: 41; homonym), by monotypy.
  - = *Blakea* Grote, 1876  
Trans. Am. Entomol. Soc. 5(2): 118. Type-species: *Papilio gundlachianus* C. Felder & R. Felder, 1864, Verh. zool.-bot. Ges. Wien 14: 294, no. 75, by original designation.  
‡*Mineroides* Bryk, 1930  
Lepid. Cat. 37: 63. This name was published in synonymy without a description or indication; a *nomen nudum*.
- \*292. **Parides eurimedes** (Stoll, 1782)  
Uitl. Kapellen 4(33): 199, pl. 386, pl. 386, figs. E ♂ D, F ♂ V; (34): 249 (index).  
**Original Combination:** *Pap[ilio]. Eques Troj[anus]. Eurimedes*  
**Type Locality:** "Berbices"  
**Types:** Syntype (#665199) in BMNH; figured by Chainey (2005), Zool. J. Linn. Soc. 145(3): fig. 11 ♂ D.  
= *arcas* (Stoll, 1781)  
Uitl. Kapellen 4(32): 174, pl. 378, fig. C ♀ D&V; (34): 247 (index).  
**Original Combination:** *Pap[ilio]. Eques Trojanus Arcas*  
**Type Locality:** "Brasilien" "Brazil"  
**Types:** Type(s) maybe in BMNH or lost.  
Preoccupied by *Papilio arcas* Drury, 1773, Ill. Nat. Hist. 1: 38, pl. 19, figs. 5, 6; 2: (index).
- a. **Parides eurimedes mylotes** (H. Bates, 1861)  
Trans. Entomol. Soc. Lond. (2)5[10](8): 346 (nota), 360; cited *Papilio mylotes* G. Gray, 1856, List Lepid. Ins. Brit. Mus.: 64, no. 258.  
**Original Combination:** *P[apilio]. Mylotes* and [*Papilio Eurimedes*] Local var. *Mylotes*  
**Type Locality:** "Nicaragua"  
**Types:** Syntypes in BMNH.  
Listed by G. Gray (1856), List Lepid. Ins. Brit. Mus.: 64, no. 258, without a description or indication; a *nomen nudum*.  
= *caleli* (Reakirt, 1863)  
Proc. Entomol. Soc. Philad. 2[2]: 138-139, no. 8.  
**Original Combination:** *P[apilio]. Caleli*  
**Type Locality:** "Guatemala" "near the Copán river"  
**Types:** Syntype in FMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 59, fig. H ♂ D.  
= *tonila* (Reakirt, 1863)  
Proc. Entomol. Soc. Philad. 2[2]: 140, no. 10.  
**Original Combination:** *P[apilio]. Tonila*  
**Type Locality:** "Guatemala"  
**Types:** Holotype in FMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 59, fig. I ♀ D.  
= *aristomenes* (C. Felder & R. Felder, [1865])  
Reise Novara (1): 38, no. 27, pl. 7, fig. a ♀ D.  
**Original Combination:** *Papilio Aristomenes*  
**Type Locality:** "Mexico"  
**Types:** Syntypes probably in BMNH.  
This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot. Ges. Wien 14: 286, no. 108; a *nomen nudum*.  
‡*docimus* (G. Gray, 1856)

List Lepid. Ins. Brit. Mus.: 64, no. 259.

**Original Combination:** *Papilio docimus*

This name was listed without a description or indication; a *nomen nudum*.

293. **Parides alopis** (Godman & Salvin, 1890)

Biol. centr.-amer., Lepid. Rhop. 2(87): 197-198, no. 12; 3(87): pl. 65, figs. 10 ♀ D, 11 ♀ V; cited *Papilio alopis* G. Gray, 1856, List Lepid. Ins. Brit. Mus.: 58, no. 231.

**Original Combination:** *Papilio alopis*

**Type Locality:** "Mexico, Los Remedios in Chihuahua...Ciudad in Durango"

**Types:** Holotype in BMNH.

This name was mentioned by G. Gray (1856), List Lepid. Ins. Brit. Mus.: 58, no. 231, and Weidemeyer (1863), Proc. Entomol. Soc. Philad. 2(2): 146, each time without a description or indication; *nomina nuda*.

= *lopiusa* (Schaus, 1911)

Entomol. News 22(10): 439.

**Original Combination:** *Papilio lopiusa*

**Type Locality:** "Guadalajara, Mexico" [Jalisco]

**Types:** Holotype in USNM; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 55, fig. M ♂ V.

This may be a hybrid taxon, as Schaus suggested in the original description.

= ‡"tepoztecatl" R. de la Maza, 1976

Revta. Soc. Méx. Lepid. 2(1): 5, 7, figs. 3 ♂ D, 4 ♂ V ("holotype").

**Original Combination:** *Parides alopis* ab. *tepoztecatl*

**Type Locality:** "pueblo Tepoztlán, en el Estado de Morelos" [Mexico]

**Types:** "Holotype" in de la Maza collection.

Subtribe **Battina** Munroe & Ehrlich, 1960

J. Lepid. Soc. 14(3): 171, defined on 170. Type-genus: *Battus* Scopoli, 1771, Intro. Hist. Nat.: 433.

Genus **Battus** Scopoli, 1777

Intro. Hist. Nat.: 433, no. 173. Type-species: *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11, by designation of Lindsey (1925), Ann. Entomol. Soc. Am. 18(1): 80.

= *Laertias* Hübner, [1819]

Verz. bekannt. Schmett. (6): 84. Type-species: *Papilio philenor* Linnaeus, 1771, Mant. Plant. (2nd ed.): 535, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 64.

= ‡*Ithobalus* Hübner, [1819]

Verz. bekannt. Schmett. (6): 88. Type-species: *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 198, no. 579. A junior objective synonym of *Battus* Scopoli, 1777.

= *Battuosa* Möhn, 1999

*In:* Bauer and Frankenbach, Schmetterlinge Erde. 5: 6. Type-species: *Papilio behus* Cramer, 1777, Uitl. Kapellen 2(10): 23, pl. 112, figs. A, B; (16): 148 (index), by original designation.

294. **Battus philenor** (Linnaeus, 1771)

a. **Battus philenor philenor** (Linnaeus, 1771)

Mant. Plant. (2nd ed.): 535.

**Original Combination:** *Papilio E[ques]. T[rojanus]. Philenor*

**Type Locality:** "America"

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 363, fig. 14 ♀ D.

= *astinous* (Drury, 1773)

Ill. Nat. Hist. 1: 21, pl. 11, figs. 1 ♂ D, 4 ♂ V (1770); 2: index (1773, name given).

**Original Combination:** *Pap[ilio]. Equ[es]. Troj[anus] Astinous*

**Type Locality:** "New York, Maryland and Virginia"

**Types:** Types probably lost.

= *nezahualcoyotl* (Strecker, 1885)

Proc. Acad. Nat. Sci. Philad. 37[7/8]: 174.

**Original Combination:** *Papilio Nezahualcoyotl*

**Type Locality:** "New Mexico, close to the Mexican border"

**Types:** Holotype in FMNH.

The holotype phenotypically represents what is recognized as *Battus philenor acauda* Oberthür, 1879, Étud. Entomol. 4: 98. This may be a case of individual variation or mislabeling.

= ‡*serpentariae* (Fabricius, 1938)

*In:* Bryk, Syst. Glossat.: 23-24, no. 20; cited *Papilio philenor* Linnaeus, 1771, Mant. Plant. (2nd ed.): 535, and J. E. Smith (1797), *in:* Smith and Abbot, Ins. Georgia I: pl. 3.

**Original Combination:** *P[apilio]. T[rojanus]. Serpentariae*

Proposed as a replacement name for *Papilio philenor* based on the name of a foodplant in Smith and Abbot; a junior objective synonym of *philenor*.

= ‡"obsoleta" (Ehrmann, 1900)

Can. Entomol. 32(11): 348.

**Original Combination:** *Papilio philenor*, Var. *obsoleta* ♂, nov. var.

**Type Locality:** "S. W. Penn'a." [Pennsylvania]

**Types:** "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 9 ♂ D.

= *Wasmuthii* (A. C. Weeks, 1901)

J. N. Y. Entomol. Soc. 9(2): 82-83, pl. 6 ♂ D&V.

**Original Combination:** *Papilio philenor* aberr. *Wasmuthii*

**Type Locality:** "in front of his residence" [Brooklyn, Kings County, New York]

**Types:** "Holotype" in CMNH.

b. **Battus philenor hirsuta** (Skinner, 1908)

Entomol. News 19(4): 149.

**Original Combination:** *Papilio phlenor* [sic] *hirsuta*

**Type Locality:** "Plumas County, California, 9,500 feet elevation"

**Types:** Lectotype (#7028) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, fig. 5 ♂ D, as "type."

= *inghami* (Gunder, 1927)

Entomol. News 38(9): 268, pl. A, figs. E ♀ D, E2 ♀ V ("holotype").

**Original Combination:** *Papilio philenor* race *hirsuta* tr. fm. *inghami*

**Type Locality:** "Fairfax, California" [Marin County]

**Types:** "Holotype" in AMNH.

295. **Battus polydamas** (Linnaeus, 1758)

a. **Battus polydamas polydamas** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 460, no. 11; cited Merian (1705), Ins. Surinam.: pl. 31, but that figure represents *Papilio androgeus*.

**Original Combination:** *P[apilio]. E[ques Trojanus]. Polydamas*

**Type Locality:** "Americas"; suggested to be "Surinam" by F. Brown (1968), J. Lepid. Soc. 22(2): 82.

**Types:** Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 369.

= *anguicidas* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 34, no. 55; cited *Papilio polydamas* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 11.

**Original Combination:** *P[apilio]. T[rojanus]. Anguicidas*

Proposed as a replacement name for *Papilio polydamas*, based on the name of a foodplant; a junior objective synonym of *polydamas*.

b. **Battus polydamas lucayus** (Rothschild & Jordan, 1906)

Novit. Zool. 13(3): 521-522, no. 51g.

**Original Combination:** *P[apilio]. polydamas lucayus*

**Type Locality:** "Bahamas: Nassau and New Providence"; lectotype from "Bahamas Nassau."

**Types:** Lectotype in BMNH, designated by Racheli and Pariset (1992), Fragm. entomol. 23(suppl.): 67.

Racheli and Pariset (1992), Fragm. entomol. 23(suppl.): 64-67, treated this taxon as a synonym of *B. p. polydamas*; the arrangement herein follows L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 60, and Tyler *et al.* (1994), Swallowtail Butts. Am.: 28.

Tribe **Leptocircini** W. F. Kirby, 1896

In: Allen, Nat. Libr., Lepid. 2: xviii, 307-308 (as "*Leptocircinae*, *Leptocirciti*"). Type-genus: *Leptocircus* Swainson, 1833, Zool. Illustr. (2)3(23): pl. 106, unnumbered text. The application of this family-group name is discussed by Smith and Vane-Wright (2001), Bull. Brit. Mus. (Nat. Hist.) Entomol. 70(2): 506-508.

Genus **Eurytides** Hübner, [1821]

Samml. exot. Schmett. 2: pl. [92]. Type-species: *Eurytides iphitas* Hübner, [1821], Samml. exot. Schmett. 2: pl. [92], figs. 3, 4, by monotypy.

= *Bellerographium* Möhn, 2002

In: Bauer and Frankenbach, Butts. World. Part. 14: 5. Type-species: *Papilio bellerophon* Dalman, 1823, Analecta Entomol.: 37, no. 1, by original designation.

Subgenus **Neographium** Möhn, 2002

In: Bauer and Frankenbach, Butts. World. Part. 14: 2. Type-species: *Papilio philolaus* Boisduval, 1836, Spec. gén. Lépid. 1: 256, no. 80, by original designation. The use of the name *Protographium* Munroe (1961), Can. Entomol. 93(suppl. 17): 16, 18, 37, 41, 51, for this subgenus was supported by Tyler *et al.* (1994), Swallowtail Butts. Am.: 30. de Jong (2003), Inv. Syst. 17(1): 147-148, determined that adding the type species of *Protographium* (*Papilio leosthenes* E. Doubleday, 1846, Ann. Mag. Nat. Hist. [1]18(121): 372) to the New World assemblage renders the group paraphyletic.

= *Asiographium* Möhn, 2002

In: Bauer and Frankenbach, Butts. World. Part. 14: 4. Type-species: *Papilio asius* Fabricius, 1781, Spec. Ins. 2: 5, no. 17, by original designation.

= *Eurygraphium* Möhn, 2002

In: Bauer and Frankenbach, Butts. World. Part. 14: 4. Type-species: *Papilio thyastes* Drury, 1782, Ill. Nat. Hist. 3: index, pl. 35, fig. 1, by original designation.



marcellus group K. Brown, 1991  
Entomol. Z. 101(21): 399.

296. **Eurytides marcellus** (Cramer, 1777)  
Uitl. Kapellen 2(9): 4, pl. 98, figs. F ♂ D, G ♂ V; (16): 149 (index).  
**Original Combination:** *Pap[ilio]. Equ[es]. Achiv[us]. Marcellus*  
**Type Locality:** “Virginien” “Virginie”  
**Types:** Possible syntype (#665081) in BMNH.
- = †*ajax* (Linnaeus, 1758) in *partim*  
Syst. Nat. (ed. 10) 1: 462, no. 26; cited Ray (1710), Hist. Ins.: 111, no. 2, and G. Edwards (1743), Nat. Hist. Birds 1: pl. 34.  
**Original Combination:** *P[apilio]. E[ques Achivus] Ajax*  
**Type Locality:** “America boreali”  
**Types:** Type(s) lost.  
I.C.Z.N. *Opinion* 286 suppressed this name, and placed it on the *Official Index of Unavailable and Rejected Names* as name no. 68. The original description of *ajax* applied to several different insects. Linnaeus based his description on figures from earlier authors, and in North America the species figured include *Eurytides marcellus* (Cramer, 1777), *Papilio glaucus* Linnaeus, 1758 and *P. polyxenes asterius* (Stoll, 1782).
  - = †*carolinianus* (G. Edwards, 1771)  
*In:* Catesby, Nat. Hist. Carolina (ed. 3) 1: pl. 100 (concordance).  
**Original Combination:** *Papilio carolinianus*  
**Type Locality:** Not stated; presumably Carolina from the formation of the name.  
**Types:** Type(s) lost.  
It is herein considered that this name is preoccupied by *Papilio caroliniana* Petiver (1764), Gazophylaceum 1: 2, pl. 7. If Petivers’ name is considered invalid, this name would be available, and a petition would need to be made to the I.C.Z.N. to suppress *carolinianus* (G. Edwards, 1771) in favor of *marcellus* (Cramer, 1777).
  - = *telamonides* (C. Felder & R. Felder, 1864)  
Verh. zool.-bot. Ges. Wien 14: 303, no. 205; cited *Papilio ajax* (*sensu* Palisot de Beauvois (1805), Ins. Afr. Amér.: 71, pl. 2, fig. 2).  
**Original Combination:** [*Papilio*] *Telamonides*  
**Type Locality:** “America sept. (Unio austral.)”  
**Types:** Syntypes in NMW and BMNH.  
The reference to Palisot de Beauvois qualified as an indication and made this name available (Code Articles 12.1 and 12.3).
  - = *floridensis* (W. Holland, 1898)  
Butt. Book: 307, pl. 44, fig. 3 ♂ D; cited G. Edwards (1743), Nat. Hist. Birds 1: pl. 34.  
**Original Combination:** [*Papilio ajax*] form *floridensis*  
**Type Locality:** Not stated; presumably “Florida” from the formation of the name.  
**Types:** Syntypes in CMNH.
  - = †*walshii* (W. H. Edwards, [1872])  
Butts. N. Am. [1] (9): [1-2], pl. Papilio 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D.  
**Original Combination:** [*Papilio*] *Ajax* var. *Walshii*  
**Type Locality:** Not stated.  
**Types:** No “types” designated.  
The text clearly indicates that this taxon was described as an individual variant.
  - = †*abbottii* (W. H. Edwards, [1872])  
Butts. N. Am. [1] (9): [2], pl. Papilio 1, fig. 6 ♂ D.  
**Original Combination:** [*Papilio Ajax*] var. *Abbotii*  
**Type Locality:** Not stated.  
**Types:** No type(s) designated.  
The text clearly indicates that this taxon was described as an individual variant.
  - = †*lecontei* (Rothschild & Jordan, 1906)  
Novit. Zool.. 13(3): 690, no. 138d’; cited *Papilio marcellus* (*sensu* Boisduval and Le Conte (1829), Hist. Lepid. Amér. sept. (1): pl. 2, figs. 1 ♂ D, 2 ♂ V, 3, larva, 4 pupa).  
**Original Combination:** *P[apilio]. marcellus* f. aest. *Le Contei*  
**Type Locality:** “Nashville” [Davidson County, Tennessee]  
**Types:** “Syntypes” in BMNH.
  - = †*tockhorni* (Schultz, 1908)  
Entomol. Z. 22(23): 92.  
**Original Combination:** *Papilio ajax* ab. (nov.) *tockhorni*  
**Type Locality:** Not stated.  
**Types:** Location of “holotype” not known.
  - = †*broweri* (Gunder, 1927)  
Entomol. News 38(9): 269.  
**Original Combination:** *Papilio marcellus* tr. fm. *broweri*  
**Type Locality:** “Willard, Missouri” [Greene County]  
**Types:** “Holotype” in USNM.
  - = †*pricei* (W. D. Field, 1936)  
J. Entomol. & Zool. 28(2): 18-19.  
**Original Combination:** *Iphiclidus marcellus* gen. aest. *Le Contei* tr. f. *pricei*

**Type Locality:** "Greenwood Co., Kansas"

**Types:** "Holotype" probably in USNM.

- = ♀ "nigrosuffusa" (W. D. Field, 1936)  
J. Entomol. & Zool. 28(2): 19.

**Original Combination:** *Iphiclides marcellus* gen. aest. *Le Contei* tr. f. *nigrosuffusa*

**Type Locality:** "Lawrence, Kansas" [Douglas County]

**Types:** "Holotype" probably in USNM.

- = ♀ *annonae* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 49, no. 108; cited *Papilio marcellus* Cramer, 1777, Uitl. Kapellen 2(9): 4, pl. 98, figs. F, G, and *Papilio ajax* (sensu J. E. Smith (1797), in: Smith and Abbot, Ins. Georgia 1: pl. 4).

**Original Combination:** *P[apilio]. A[chivus]. Annonae*

Proposed as a replacement name for *ajax* and *marcellus* based on an erroneous foodplant name in Smith and Abbot; a junior objective synonym of *Papilio marcellus*.

♀ "cubensis" (Boullet & Le Cerf, 1912)

Bull. Mus. Natn. Hist. Nat., Paris Suppl. [1]18(2): 41.

**Original Combination:** [*Papilio*] *marcellus-cubensis*

Proposed without a description or indication; a *nomen nudum*.

297. **Eurytides philolaus** (Boisduval, 1836)

a. **Eurytides philolaus philolaus** (Boisduval, 1836)

Spec. gén. Lépid. 1: 256, no. 80.

**Original Combination:** *Papilio Philolaus*

**Type Locality:** "Mexique"

**Types:** Holotype in MNHP.

- = ♀ *ajax* (Eimer, 1889)

Artb. Verwandtsch. Schmett. 1: 212.

**Original Combination:** *Papilio Philolaus Ajax*

**Type Locality:** "Mexiko"

**Types:** Location of "type(s)" not known.

Preoccupied by *Papilio ajax* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 26.

- = ♀ "nigrescens" (Eimer, 1889)

Artb. Verwandtsch. Schmett. 1: 213.

**Original Combination:** *Papilio Philolaus nigrescens*

**Type Locality:** "Honduras"

**Types:** Location of "type(s)" not known.

Preoccupied by *Papilio nigrescens* Eimer, 1889, Artb. Verwandtsch. Schmett. 1: 88.

- = ♀ "niger" (Eimer, 1889)

Artb. Verwandtsch. Schmett. 1: 214, pl. 4, fig. 1 ♂ D&V ("holotype").

**Original Combination:** [*Papilio*] *Philolaus niger*

**Type Locality:** "Honduras"

**Types:** Location of "holotype" not known.

- = ♀ "felicis" (Fruhstorfer, 1904)

Soc. Entomol. 19(4): 25.

**Original Combination:** *Papilio philolaus* ab. *felicis*

**Type Locality:** "Honduras"; syntype from "San Pedro Sula, Honduras."

**Types:** "Syntype" in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 65, fig. I ♀ D.

- = ♀ "vazquezae" Beutelspacher, 1976

Revta. Soc. Méx. Lepid. 2(2): 61, fig. 1B ♂ D.

**Original Combination:** *Eurytides philolaus* forma *vazquezae*

**Type Locality:** "Zoquepán, Pue. (colln. Inst. Biol. UNAM)...Cañon del Novillo, Tamps....Tamán, S.L.P...Fortín, Ver... Mesa de San Diego, Pue....El Salto, S.L.P."

**Types:** "Syntypes" in UNAM and de la Maza collection.

Tribe **Papilionini** Latreille, [1802]

Genus **Papilio** Linnaeus, 1758

Syst. Nat. (ed. 10) 1: 458. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by designation of Latreille (1810), Consid. gén. Anim. Crust. Arach. Ins.: 350, 440. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 703. The generic and subgeneric arrangement herein follows J. Miller (1987), Bull. Am. Mus. Nat. Hist. 186(4): 365-512.

Subgenus **Papilio** Linnaeus, 1758

- = ♀ *Amaryssus* Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 60. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by original designation. A junior objective synonym of *Papilio*.

- = ♀ *Aernauta* Berge, 1842

Schmetterlingsbuch: 19, 106-109. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by designation

of Hemming (1934), Entomol. 67(2)[849]: 38. A junior objective synonym of *Papilio*.

= ‡*Achivus* W. F. Kirby, 1896

In: Allen, Nat. Libr., Lepid. 2: 286. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by original designation. A junior objective synonym of *Papilio*.

= ‡*Princeps* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97; *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 83.

\*298. ***Papilio machaon* Linnaeus, 1758**

Syst. Nat. (ed. 10) 1: 462, no. 27; referred to many earlier authors.

**Original Combination:** *P*[*apilio*]. *E*[*ques Achivus*] *Machaon*

**Type Locality:** "Europae"

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 344.

I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Specific Names in Zoology* as name no. 107. Most of the Palearctic synonymy is not listed. The evidence that *machaon* and *bairdii* are conspecific is compelling to many authors; see Scott (1986), Butts. N. Am.: 164-170, no. 5; Sperling (1987), Quaest. Entomol. 23(2): 198-315, (1993), Mem. Entomol. Soc. Can. 165: 233-242, and Sperling and Harrison (1994), Evolution 48(2): 408-422.

= *reginae* Retzius, 1783

Gen. Spec. Ins.: 30, no. 5; cited de Geer (1771), Mém. Hist. Ins. 2: 185, pl. 1, figs. 2, 3, and *Papilio machaon* Linnaeus (1758),

Syst. Nat. (ed. 10) 1: 462, no. 27.

**Original Combination:** *P*[*apilio*]. *Reginae*

**Type Locality:** Not stated.

**Types:** Type(s), if they existed, are probably lost.

= ‡*umbellatarum* Fabricius, 1938

In: Bryk, Syst. Glossat.: 46-47, no. 98; cited *Papilio machaon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 462, no. 27.

**Original Combination:** *P*[*apilio*]. *A*[*chivus*]. *Umbellatarum*

Proposed as a replacement name for *machaon* based upon a foodplant name; a junior objective synonym of *machaon*.

a. ***Papilio machaon alaska* Scudder, 1869**

Proc. Boston Soc. Nat. Hist. 12: 407.

**Original Combination:** *Papilio Alaska*

**Type Locality:** "most of them at Nulato...others...at a short distance below the Ramparts, and also just above them" "cañons, commencing two hundred miles below Fort Yukon" [Alaska]

**Types:** Lectotype (#2144) in MCZ, designated by W. Holland (1931), Butt. Book (rev. ed.): 314, pl. 41, fig. 1 ♂ D, as "type."

Eitschberger (1993), Atalanta (Münnerstadt) 24(1/2): 30, figs. 27, 34-38, 46, treated this as a species-level taxon, with *hudsonianus* and *pikei* as subspecies.

= *joannisi* Verity, [1907]

Rhop. palae.: 12 [31 Dec 1908]; pl. 10, fig. 16 ♂ D (not fig. 17) [28 Feb 1907]; ind. syst.: xiv [31 Oct 1911].

**Original Combination:** *P*[*apilio*] *machaon* var. *joannisi*

**Type Locality:** "l'Alaska" implied from the text, "Nulato, Alaska" from the legend to plate 10.

**Types:** Syntype in MZS.

Considered available from the date and original combination on the legend to plate 10.

= *petersii* A. Clark, 1932

Proc. U. S. Nat. Mus. 81(2934): 8-9, pl. 4, figs. 1 ♂ D, 2 ♂ V (holotype), pl. 5, fig. 3 ♂ D, pl. 6, fig. 3 ♂ V.

**Original Combination:** *Papilio machaon petersii*

**Type Locality:** "Koyukuk River, central Alaska (lat. 67°-69° N., long. 151° W)"

**Types:** Holotype (#34479) in USNM.

b. ***Papilio machaon hudsonianus* A. Clark, 1932**

Proc. U. S. Nat. Mus. 81(2934): 6-8, pl. 3, figs. 1 ♀ D, 2 ♀ V (holotype).

**Original Combination:** *Papilio machaon hudsonianus*

**Type Locality:** "Kettle Rapids, Nelson River, Manitoba, on the Hudson Bay Railway"

**Types:** Holotype (#34478) in USNM.

= *avinoffi* F. Chermock & R. Chermock, 1937

Bull. South. Calif. Acad. Sci. 36(1): 11-12.

**Original Combination:** *Papilio machaon* race *Avinoffi*

**Type Locality:** "Whirlpool River, Riding Mts., Manitoba"

**Types:** Holotype in CMNH.

= *kahli* F. Chermock & R. Chermock, 1937

Bull. South. Calif. Acad. Sci. 36(1): 12-13.

**Original Combination:** *Papilio nitra* form *Kahli*

**Type Locality:** "Riding Mts., Manitoba"

**Types:** Holotype stated to be in CMNH.

The taxa *avinoffi* and *kahli* apparently evolved from hybridization and long term introgression between *P. polyxenes asterius* and *P. machaon hudsonianus*. They are placed under the senior name in this synonymy. For discussion and explanation of the complex relationships between members of the *Papilio machaon* complex, see Sperling (1987), Quaest. Entomol. 23(2): 198-315, (1993), Mem. Entomol. Soc. Can. 165: 233-242, and Sperling and Harrison (1994), Evolution 48(2): 408-422.



‡"kwakwapooshesi" Seyer, 1977

Mitt. Entomol. Ges. Basel (nf)27(4): 113.

**Original Combination:** *Papilio machaon kwakwapooshesi* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"prestoni" Seyer, 1977

Mitt. Entomol. Ges. Basel (nf)27(4): 113.

**Original Combination:** *Papilio machaon prestoni* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"frechini" Seyer, 1977

Mitt. Entomol. Ges. Basel (nf)27(4): 113.

**Original Combination:** *Papilio machaon frechini* (Chermock *in litt.*)

This name was listed without a description or indication; a *nomen nudum*.

‡"comstocki" Scott & Troubridge, 1981

*Papilio* (n.s.) 1: 1.

**Original Combination:** *Papilio polyxenes kahli* form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"comstocki" Scott, 1986

Butts. N. Am.: 167, no. 5.

**Original Combination:** [*Papilio machaon*] *hudsonianus* form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

c. ***Papilio machaon pikei*** Sperling, 1987

Quaest. Entomol. 23(2): 219-221, pl. 1, figs. e ♂ D&V, f ♀ D&V.

**Original Combination:** *Papilio machaon pikei*

**Type Locality:** "Canada, Alberta, Dunvegan (s. Fairview)"

**Types:** Holotype in CNC.

d. ***Papilio machaon oregonia*** W. H. Edwards, 1876

Trans. Am. Entomol. Soc. 5(3/4): 208; figured by W. H. Edwards (1880), Butts. N. Am. 2(9): pl. *Papilio* 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Papilio Hippocrates* Var. *Oregonia*

**Type Locality:** "Columbia River"; defined as "the Dalles, Columbia River" by W. H. Edwards (1880), Butts. N. Am. 2(9): [29-31]; neotype from "Hepner [*sic*]", Oregon, some miles upstream." [Heppner, Morrow County]

**Types:** Neotype (#36915) in AMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 24, fig. ♂ D&V.

Species-genus gender conformation is *oregonius*.

e. ***Papilio machaon dodi*** McDunnough, 1939

Can. Entomol. 71(10): 216-217, fig. ♂ D (holotype).

**Original Combination:** *Papilio machaon* var. *dodi*

**Type Locality:** "Red Deer River, Alta. (50 miles N. E. of Gleichen)"; defined as "along the Red Deer River near Nevis, about 100 km NW of Drumheller" by Kondla (1981), Blue Jay 39(3): 144; subsequently defined as "Dorothy, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 39.

**Types:** Holotype (#4913) in CNC.

f. ***Papilio machaon bairdii*** W. H. Edwards, 1866

Proc. Entomol. Soc. Philad. 6(2): 200, no. 1; figured by W. H. Edwards (1880), Butts. N. Am. 2(9): pl. *Papilio* 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Papilio Bairdii*

**Type Locality:** "Arizona"; defined as "vicinity of Fort Whipple, near Prescott, Arizona" by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 14. [Yavapai County]

**Types:** Neotype in CMNH, designated by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 15, fig. 4 ♂ D&V.

= *utahensis* Strecker, [1878]

Lepid. Rhop. Het. (14): 128.

**Original Combination:** *Papilio Asterius* var. *Utahensis*

**Type Locality:** "Utah"

**Types:** Holotype in FMNH.

= *hollandii* W. H. Edwards, 1892

Can. Entomol. 24(3): 50, no. 4.

**Original Combination:** *Papilio Hollandii*

**Type Locality:** "West Colorado"; defined as "Glenwood Springs, Garfield County, Colorado" by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 17; lectotype from "Roaring Forks, Colo."

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 315, pl. 40, fig. 3 ♂ D, as "type"; figured by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 18, fig. 5 ♂ D&V.

= *brucei* W. H. Edwards, 1895

Can. Entomol. 27(9): 239.

**Original Combination:** *Papilio Brucei*

**Type Locality:** "Glenwood Springs, Colorado" [Garfield County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 315, pl. 40, fig. 4 ♀ [not ♂] D, as "type."

This name was mentioned without a description or indication by W. H. Edwards (1893), Can. Entomol. 25(10): 253; a *nomen nudum*.

- ‡"ampliata" Scott, 1981  
*Papilio* (n.s.) 1: 2.  
**Original Combination:** *Papilio bairdii* form *ampliata*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.  
 ‡"comstocki" Scott, 1981  
*Papilio* (n.s.) 1: 2.  
**Original Combination:** *Papilio bairdii* form *comstocki*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
299. ***Papilio breviceauda*** Saunders, 1869  
 a. ***Papilio breviceauda breviceauda*** Saunders, 1869  
*In:* Packard, Guide Study Ins.: 245-246 (nota).  
**Original Combination:** *Papilio Breviceauda*  
**Type Locality:** "St. John's, Newfoundland" [Newfoundland and Labrador]  
**Types:** Holotype in CNC.  
 = *anticostiensis* Strecker, 1873  
 Lepid. Rhop. Het. (2): 10-11, pl. 2, fig. 2 ♀ D&V.  
**Original Combination:** *Papilio Anticostiensis*  
**Type Locality:** "Fox Bay, Anticosti Island; Labrador" [Newfoundland and Labrador]  
**Types:** Holotype in FMNH.  
 b. ***Papilio breviceauda gaspeensis*** McDunnough, 1934  
 Can. Entomol. 66(4): 84.  
**Original Combination:** [*Papilio breviceauda*] *gaspeensis*  
**Type Locality:** "Mt. Lyall, Gaspé Co., Que." [Quebec]  
**Types:** Holotype (#3735) in CNC.  
 c. ***Papilio breviceauda bretonensis*** McDunnough, 1939  
 Can. Entomol. 71(7): 157, pl. 22 ♂ D (holotype), ♀ D.  
**Original Combination:** [*Papilio breviceauda*] [race] *bretonensis*  
**Type Locality:** "Baddeck, N. S." [Nova Scotia]  
**Types:** Holotype (#4549) in CNC.
300. ***Papilio joanae*** J. Heitzman, 1973  
 J. Res. Lepid. 12(1): 3, 4, 7, figs. 1(A) ♂ D, (B) ♂ V (holotype); (C) ♀ D, (D) ♀ V.  
**Original Combination:** *Papilio joanae*  
**Type Locality:** "Warsaw, Benton County, Missouri, elevation 800-880 feet, in forest area"  
**Types:** Holotype in AMNH.  
 As noted by Sperling and Harrison (1994), Evolution 48(2): 408-422, this taxon is closely related to *Papilio machaon*.
- \*301. ***Papilio polyxenes*** Fabricius, 1775  
 Syst. Entomol.: 444-445, no. 10.  
**Original Combination:** *P[apilio]. E[ques]. T[rojanus]. Polyxenes*  
**Type Locality:** "America"; further defined as "Americae meridionali insulis" by Fabricius (1781), Spec. Ins. 2: 4, no. 13; defined as "Cuba" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 547.  
**Types:** Type(s) probably lost.  
 a. ***Papilio polyxenes asterius*** (Stoll, 1782)  
 Util. Kapellen 4(33): 194-196, pl. 385, figs. C ♂ D, D ♂ V; 4(34): 248 (index).  
**Original Combination:** *Pap[ilio]. E[ques]. Achiv[us]. Asterius*  
**Type Locality:** "Nord-Amerika en wordt in Niewjork, Virginien en Carolina" "l'Amerique Septentrionale, dans la Nouvelle York, en Virginie & dans la Caroline"  
**Types:** Possible syntype in RNHL.  
 This is one of the species implied in Linnaeus' original description of *Papilio ajax* (see *Eurytides marcellus*), based on Petiver (1709), Gazophylacium: pl. 6, fig. 12.  
 = *ampliata* Ménétériés, 1855  
 Enum. corp. anim. (1): 99-100, under no. 60.  
**Original Combination:** [*Papilio Asterias*] var. *Ampliata*  
**Type Locality:** "l'Amerique septentrionale...(par Motschulsky)"; suggested to be "Mexico" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 545.  
**Types:** Type(s) probably in ZIN.  
 = *calverleyi* Grote, 1864  
 Proc. Acad. Nat. Sci. Philad. 2[4]: 441, pl. 10.  
**Original Combination:** *Papilio Calverleyi*  
**Type Locality:** "New York State...immediate neighborhood of the village of New Lots, Queen's County, Long Island"  
**Types:** Holotype probably in CMNH; figured by W. Holland (1898), Butt. Book: pl. 41, fig. 6 ♀ D.  
 = *asterioides* Reakirt, [1867]  
 Proc. Acad. Nat. Sci. Philad. 18(3): 331-332, no. 27.  
**Original Combination:** *Papilio asterioides*  
**Type Locality:** "Mexico"  
**Types:** Holotype (#7011) in ANSP; figured by Strecker (1873), Lepid. Rhop. Het. (6): pl. 6, fig. 4 ♀ D&V.  
 = *curvifascia* Skinner, 1902  
 Entomol. News 13(6): 183.

**Original Combination:** *Papilio polyxenes* var. *curvifascia*

**Type Locality:** "Rincon, New Mexico" [Dona Ana County]

**Types:** Syntype (#7026) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 70, fig. 12 ♂ D.

= *gracehus* Fabricius, 1938

In: Bryk, Syst. Glossat.: 23, no. 18.

**Original Combination:** *P[apilio]. T[rojanus]. Gracehus*

**Type Locality:** "Philadelphia Dom. Smith Barton" [Philadelphia County, Pennsylvania]

**Types:** Location of type not known.

This name is probably a printer's error for *gracchus*.

= ♀ "viridis" Cockerell, 1889

Entomol. 22(314): 199.

**Original Combination:** *Papilio asterias* var. *pupae viridis*

**Type Locality:** Not stated.

**Types:** No "type" designated (a variety of the pupa).

= ♀ "alunata" Skinner & E. Aaron, 1889

Can. Entomol. 21(7): 127-128.

**Original Combination:** *P[apilio]. asterius*, var. ♀ *alunata*

**Type Locality:** "Philadelphia, Pa." implied from the title of the paper; "syntype" labeled from "Fairmont Park, Phila." [Philadelphia County, Pennsylvania]

**Types:** "Syntype" (#7012) in ANSP.

= ♀ "mediocauda" Eimer, 1895

Artb. Verwandtsch. Schmett. 2: 118, 138.

**Original Combination:** *Papilio mediocauda* ♂

**Type Locality:** "Canada"

**Types:** Location of type(s) not known.

This taxon was given a binomial combination, but the appended "♂" indicates an infrasubspecific name. It was listed as *Papilio Asterias* (*P[apilio]. mediocanda*) on page 118; an incorrect original spelling. This misspelling occurred in the list of figures given on the plates, and is a printers error judging from the derivation of the name. This taxon might represent *P. brevicauda* or *P. p. asterius*.

= ♀ "semialba" Ehrmann, 1900

Can. Entomol. 32(11): 348.

**Original Combination:** *Papilio asterias*, Var. *semi-alba* ♂, nov. var.

**Type Locality:** "S. W. Penn'a." [Pennsylvania]

**Types:** "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 1 ♂ D.

= ♀ "masculina" Reiff, 1911

Z. wiss. InsektBiol. 7(7/8): 235.

**Original Combination:** [*Papilio polyxenes*] ab. *masculina*

**Type Locality:** Not stated.

**Types:** "Holotype" in MCZ (*ex* Bussey Institute).

= ♀ "ehrmanni" Ehrmann, 1925

Bull. Brooklyn Entomol. Soc. 20(2): 84.

**Original Combination:** *Papilio ehrmanni* n. ab. (of *asterius*)

**Type Locality:** "Hammet Place, Allegheny Co., Pa." [Pittsburgh, Pennsylvania]

**Types:** "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 2 ♂ D. I treat this name as if proposed in the form "*Papilio asterius* ab. *ehrmanni*."

= ♀ "gertrudis" Kruck, 1931

Entomol. Rdsch. 48(22): 236, fig. 2 ♂ D ("holotype").

**Original Combination:** *Pap[ilio]. asterius* ab. *gertrudis* ab. nov.

**Type Locality:** "Mexiko-Süd, Dep. Oaxaca"

**Types:** "Holotype" in Kruck collection.

= ♀ "forsythae" Wood, 1937

Entomol. News 48(10): 273, pl. 4, ♂ D ("holotype").

**Original Combination:** *Papilio ajax forsythae* new aberration

**Type Locality:** "Florida City, Florida" [Miami-Dade County]

**Types:** "Holotype" in AMNH.

= ♀ "pseudoamericus" F. Brown, [1943]

Entomol. News 53(10): 291.

**Original Combination:** [*Papilio ajax* race] *pseudoamericus*

**Type Locality:** "Troy, Illinois" [Madison County]

**Types:** "Holotype" in Meiners collection, St. Louis, Missouri.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "subamplicata" Dufrene, 1946

Bull. Anns. Soc. Entomol. Belg. 82(5/6): 106.

**Original Combination:** *P[apilio]. polyxenes asterius* f. *subamplicata*

**Type Locality:** "Temple, Pa. (E. U. A.)" [Berks County, Pennsylvania]

**Types:** "Holotype" probably in IRSN.



- b. **Papilio polyxenes coloro** W. G. Wright, 1905  
 Butts. W. Coast. 86, no. 25, pl. 3, fig. 25 ♂ D (holotype).  
**Original Combination:** [*Papilio Zelicaon* var.] *Coloro*; *Papilio Coloro* n. v.  
**Type Locality:** "Colorado Desert of California" "Colorado Desert of southeastern California"; defined as "Whitewater Hill, Coachella Valley, Colorado Desert, Riverside Co." by Ferris and J. Emmel (1982), Bull. Allyn Mus. (76): 2.  
**Types:** Holotype (#4281) in CAS; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 92, fig. W ♂ D&V.  
 = *rudkini* F. Chermock & R. Chermock, 1937  
 Bull. South. Calif. Acad. Sci. 36(1): 8.  
**Original Combination:** *Papilio rudkini*  
 It might be considered that this name dates from J. A. Comstock (see below). It is herein considered that Comstock's use of this name indicates an infrasubspecific entity, and that the Chermocks adopted *Papilio bairdii* form *rudkini* J. A. Comstock, 1935, to represent a species-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
 = ⚡"rudkini" J. A. Comstock, 1935  
 Bull. South. Calif. Acad. Sci. 34(2): 143-144.  
**Original Combination:** *Papilio bairdii* form *rudkini*  
**Type Locality:** "Ibanpah [*sic*] Mts., Calif." [Ivanpah Mountains, San Bernardino County, California]  
**Types:** "Holotype" in LACM.  
 = ⚡"clarki" F. Chermock & R. Chermock, 1937  
 Bull. South. Calif. Acad. Sci. 36(1): 8-9.  
**Original Combination:** *Papilio rudkini* form *Clarki*  
**Type Locality:** "Ibanpah [*sic*] Mts., Calif." [Ivanpah Mountains, San Bernardino County, California]  
**Types:** "Holotype" in LACM.  
 = ⚡"comstocki" F. Chermock & R. Chermock, 1937  
 Bull. South. Calif. Acad. Sci. 36(1): 10.  
**Original Combination:** *Papilio rudkini comstocki*  
**Type Locality:** "Clark Mt., Mojave Desert, Calif." [San Bernardino County, California]  
**Types:** "Holotype" in LACM.
302. **Papilio zelicaon** Lucas, 1852  
 Revue Mag. Zool. (2)4(3): 136-138.  
**Original Combination:** *Papilio Zelicaon*  
**Type Locality:** "Californie"; defined as "San Francisco, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78. [San Francisco County]  
**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78, figs. 1 ♂ D, 2 ♂ V.  
 = *zolicaon* Boisduval, 1852  
 Anns. Soc. Entomol. Fr. (2)10(2): 281-2, no. 3.  
**Original Combination:** *Papilio zolicaon*  
**Type Locality:** "Californie" implied from the title of paper.  
**Types:** Syntypes in USNM.  
 = *californica* Ménétriés, 1855  
 Enum. corp. anim. (1): 69-70, under no. 58; cited *Papilio zolicaon* Boisduval, 1852, Anns. Soc. Entomol. Fr. (2)10(2): 281-2, no. 3.  
**Original Combination:** *P[apilio] Machaon* var. *Californica*  
**Type Locality:** "Californie"  
**Types:** Type(s) probably in ZIN.  
 = *nitra* W. H. Edwards, [1884]  
 Papilio 3(7-10): 158, 162, no. 3; figured by W. H. Edwards (1888), Butts. N. Am. 3(6): pl. Papilio 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Papilio Nitra*  
**Type Locality:** "some parts of Montana, and probably in Brit. Am."; "Judith Mtns., Montana" implied from the title of the paper. The lectotype is from "Mt. Judith, Montana." [Fergus County]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 316, pl. 41, fig. 2 ♂ D, as "type"; figured by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 26, fig. 8 ♂ D&V.  
 = *gothica* C. Remington, 1968  
 Postilla 119: 2-6, figs. 1 ♂ D, 3 ♂ V (holotype), 2 ♀ D, 4 ♀ V, 6 ♂ D, 7 ♀ D, 8 ♂ D, 9 ♀ D, 14 ♂ V, 15 ♀ V, 16 ♂ V, 17 ♀ V.  
**Original Combination:** *Papilio gothica*  
**Type Locality:** "Gothic, 9500', Gunnison Co., Colorado"  
**Types:** Holotype in YPM.  
 = ⚡"impunctata" Fischer, 1908  
 Soc. Entomol. 23(17): 129.  
**Original Combination:** *Papilio zolicaon* ab. *impunctata*  
**Type Locality:** Not stated.  
**Types:** Location of "type" not known.  
 = ⚡"melanotaenia" Fischer, 1908  
 Soc. Entomol. 23(17): 129.  
**Original Combination:** *Papilio zolicaon* ab. *melanotaenia*  
**Type Locality:** Not stated.  
**Types:** Location of "type" not known.  
 = ⚡"formosa" Fischer, 1908

Soc. Entomol. 23(17): 129-130.

**Original Combination:** *Papilio zolicaon* ab. *formosa*

**Type Locality:** Not stated.

**Types:** Location of "type" not known.

= ‡"mcdunnoughi" Gunder, 1928

Can. Entomol. 60(7): 162, pl. A, figs. 1 ♂ D, 1a ♂ V ("holotype").

**Original Combination:** *Papilio zelicaon* tr. f. *mcdunnoughi*

**Type Locality:** "Waterton lakes, Alta., Can." [Alberta]

**Types:** "Holotype" in CNC.

This was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. 1: 35, representing an unjustified emendation.

‡"comstocki" Scott, 1981

*Papilio* (n.s.) 1: 1-2.

**Original Combination:** *Papilio zelicaon* form *comstocki*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"ampliatanitra" Scott, 1981

*Papilio* (n.s.) 1: 1-2.

**Original Combination:** *Papilio zelicaon* form *ampliatanitra*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

303. ***Papilio indra*** Reakirt, 1866

a. ***Papilio indra indra*** Reakirt, 1866

Proc. Entomol. Soc. Philad. 6(1): 123-124.

**Original Combination:** *Papilio Indra*

**Type Locality:** "Pike's Peak, Colorado Terr." [El Paso-Teller counties] This species is not currently known from the Pikes Peak area; the holotype probably came from the area west of Golden, Jefferson County, most likely Lookout Mountain or Mount Zion (A. Warren pers. comm. 2006).

**Types:** Holotype (#7010) in ANSP.

b. ***Papilio indra shastensis*** J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (55): 701-702, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Papilio indra shastensis*

**Type Locality:** "California: Shasta County; McCloud Bridge Campground, Shasta Lake"

**Types:** Holotype in LACM.

c. ***Papilio indra phyllisae*** J. Emmel, 1982

J. Lepid. Soc. 35(4): 297-298, figs. 3 ♂ D&V (holotype), 4 ♀ D&V.

**Original Combination:** *Papilio indra phyllisae*

**Type Locality:** "Butterbread Peak and ridge running to the southwest, 4900'-5900', Kern Co., California, S. 30 & S. 31, T. 29 S., R. 36 E"

**Types:** Holotype in LACM.

d. ***Papilio indra pergamus*** Hy. Edwards, 1874

Proc. Calif. Acad. Sci. [1]5(27): 423-424.

**Original Combination:** *Papilio Pergamus*

**Type Locality:** "near Santa Barbara"; corrected to "Devil Canyon, about 11 km NNW of San Bernardino, San Bernardino Mountains, San Bernardino County, California" by S. Miller (1984), J. Res. Lepid. 23(2): 175.

**Types:** Holotype in AMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 70, fig. 9 ♂ D.

e. ***Papilio indra nevadensis*** T. Emmel & J. Emmel, 1971

Pan-Pac. Entomol. 47(3): 220-222, fig. 1 ♂ D&V, ♀ D&V.

**Original Combination:** *Papilio indra nevadensis*

**Type Locality:** "Jett Canyon, 6,600 feet elevation, east side; Toiyabe Range, Nye County, Nevada"

**Types:** Holotype in LACM.

f. ***Papilio indra panamintensis*** J. Emmel, 1982

J. Lepid. Soc. 35(4): 300-301, figs. 5 ♂ D&V (holotype), 6 ♀ D&V.

**Original Combination:** *Papilio indra panamintensis*

**Type Locality:** "Thorndike Campground, Wildrose Canyon, 7400', Panamint Range, Inyo Co., California, S. 35, T. 19 S., R. 45 E"

**Types:** Holotype in LACM.

g. ***Papilio indra fordii*** J. A. Comstock & Martin, 1956

Bull. South. Calif. Acad. Sci. 54(3): 144-145, pl. 40, figs. 3 ♂ D (holotype), 4 ♀ D; pl. 41, figs. 3 ♂ V (holotype), 4 ♀ V.

**Original Combination:** *Papilio indra fordii*

**Type Locality:** "Granite Mountains, a few miles north and east of Apple Valley, San Bernardino County, California"

**Types:** Holotype in LACM; figured by Howe (1975), Butts. N. Am.: pl. 67, fig. 5 ♂ D.

h. ***Papilio indra martini*** J. Emmel & T. Emmel, 1966

Entomol. News 77(3): 57-60, fig. 1 upper left ♂ D (holotype), upper right ♀ D, lower left ♂ V (holotype), lower right ♀ V, fig. 2 left column, bottom ♀ D, right column ♀ D.

**Original Combination:** *Papilio indra martini*

**Type Locality:** "Gilroy Canyon, elevation 5,600 feet, Providence Mountains, San Bernardino County, California"

**Types:** Holotype in LACM.

i. ***Papilio indra parvindra*** J. Emmel, T. Emmel & Griffin, *nomen novum*

Herein proposed by the original authors to replace *Papilio indra pygmaeus* J. Emmel, T. Emmel & Griffin, 1998, preoccupied,

with the same data (Code Article 60.3).

= *Pygmaeus* J. Emmel, T. Emmel & Griffin, 1998

Syst. W. N. Am. Butts. (57): 712, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Papilio indra pygmaeus*

**Type Locality:** "California: San Bernardino County; eastern Mojave Desert; Dead Mts. NNW of Needles; peak of Mt. Manchester, 3560-3600' el., SW 1/4 of S.18, T.11N., R.22E"

**Types:** Holotype in LACM.

This name is preoccupied by *Papilio menestheus pygmaeus* Aurivillius, 1898, K. svenska. VetenskAkad. Handl., ny följd 31: 478.

j. ***Papilio indra calcicola*** J. Emmel & Griffin, 1998

Syst. W. N. Am. Butts. (56): 707-708, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Papilio indra calcicola*

**Type Locality:** "Nevada: Clark County; Muddy Mountains; canyon east of Buffington Pockets; 5.9 air miles north and 0.3-0.4 air miles east of 5363' Muddy Peak, 3,400-3,800' elevation; T18S R65E"

**Types:** Holotype in LACM.

k. ***Papilio indra minori*** Cross, 1937

Proc. Colo. Mus. Nat. Hist. 16(1): 4-5, fig. ♂ D (holotype).

**Original Combination:** *Papilio indra minori*

**Type Locality:** "Black Ridge Breaks'...Mesa County" [Colorado]

**Types:** Holotype possibly in DMNH.

l. ***Papilio indra kaibabensis*** Bauer, 1955

Lepid. News 9(2/3): 49-50, figs. 3rd row ♀ D, ♂ D (holotype), 4th row ♀ V, ♂ V (holotype).

**Original Combination:** *Papilio indra kaibabensis*

**Type Locality:** "Bright Angel Point, Grand Canyon, Coconino Co., Ariz." [Arizona]

**Types:** Holotype in USNM.

Subgenus ***Sinoprinceps*** Hancock, 1983

Smithersia 2: 35. Type-species: *Papilio xuthus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 751, no. 34; corrigenda, by original designation.

304. ***Papilio xuthus*** Linnaeus, 1767 (emended)

Syst. Nat. (ed. 12) 1(2): 751, no. 34; corrigenda.

**Original Combination:** *P[apilio]. E[ques]. A[chivus]. Xanthus*

**Type Locality:** "India orientalis"; suggested to be "Canton" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 392. [China]

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 392, fig. 20 ♂ D.

This name was emended to *xuthus* in the index; *xanthus* is an incorrect original spelling. I.C.Z.N. *Opinion* 286 placed *xuthus* on the *Official List of Specific Names Available in Zoology* as name no. 117 and *xanthus* on the *Official Index of Rejected and Unavailable Names in Zoology* as name no. 69. Most of the synonymy is not listed.

= *xuthulus* Bremer, 1861

Bull. Acad. Sci. St. Pétersbourg (3)3: cols. 463-464, no. 1; figured by Bremer (1864), Mém. Acad. Imp. Sci. St.-Pétersbourg (ser. 7)8(1): pl. 1, fig. 2 ♂ D&V.

**Original Combination:** *Papilio xuthulus*

**Type Locality:** "Bureja-Gebirge" [Republic of Buryatia, Russia]

**Types:** Type(s) in ZIN.

= *xuthulinus* Murray, 1874

Entomol. Mon. Mag. 11(7): 166.

**Original Combination:** *Papilio Xuthulinus*

**Type Locality:** "immediate neighborhood of Yokohama" [Japan]

**Types:** Location of type(s) not known, possibly in BMNH.

Subgenus ***Heraclides*** Hübner, [1819]

Verz. bekannt. Schmett. (6): 83-84. Type-species: *Papilio thoas* Linnaeus, 1771, Mant. Plant. (2nd ed.): 536, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 187, no. 517. Zakharov *et al.* (2004), Syst. Biol. 53(2):193-215, suggested that this group (with the present synonymy) might be considered a genus-level taxon.

= *Calaides* Hübner, [1819]

Verz. bekannt. Schmett. (6): 86. Type-species: *Papilio androgeus* Cramer, 1775, Utitl. Kapellen 1(2): 24-25, pl. 16, figs. C, D; (8): 151 (index), by designation of Rothschild and Jordan (1906), Novit. Zool. 13(3): 358.

= *Priamides* Hübner, [1819]

Verz. bekannt. Schmett. (6): 87. Type-species: *Priamides hipponous* Hübner, [1819], Verz. bekannt. Schmett. (6): 87, no. 896 (= *Papilio anchisiades* Esper, 1788, Ausl. Schmett. (4): 53, no. 22, pl. 13, figs. 1, 2; junior objective synonym), by designation of Hemming (1935), Entomol. 68(2)[861]: 39.

= *Troilides* Hübner, [1825]

Samml. exot. Schmett. 2: pl. [111]. Type-species: *Troilides tros* Hübner, [1825], Samml. exot. Schmett. 2: pl. [111], figs. 1, 2 (= *Papilio polybius* Swainson, 1822, Zool. Illustr. (1)2(18): pl. 94, unnumbered text; synonym: a subspecies of *Papilio torquatus* Cramer, 1777, Utitl. Kapellen 2(14): pl. 177, figs. A, B; (16) 151 (index)), by monotypy.



= ‡*Thoas* Swainson, 1833

Zool. Illustr. (2)3(26): pl. 121, unnumbered text. Type-species: *Papilio thoas* Linnaeus, 1771, Mant. Plant. (2nd ed.): 536, by tautonymy; a junior objective synonym of *Heracles* Hübner, [1819].

\*305. **Papilio thoas** Linnaeus, 1771

Mant. Plant. (2nd ed.): 536; cited Drury (1770), Ill. Nat. Hist. 1: pl. 22, figs. 1, 2, Daubenton [1765], Miscellanea: pl. 69, and Seba (1764), Locuplet. Rerum Nat. Thes. 4: pl. 32, figs. 6 ♂ D, 7 ♂ V.

**Original Combination:** *Papilio E[ques]*. *A[chivus]*. *Thoas*

**Type Locality:** "Guadelupa, Surinamo"

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 386.

= *archimedes* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 46, no. 97.

**Original Combination:** *P[apilio]*. *Archimedes*

**Type Locality:** Not stated.

**Types:** Holotype in 'Museum Gallicum.'

a. **Papilio thoas autocles** Rothschild & Jordan, 1906

Novit. Zool. 13(3): 557-558, no. 66c; cited *Papilio thoas* (*sensu* Godman and Salvin (1890), Biol. centr-amer., Lepid. Rhop. 3(89): pl. 69, fig. 4, and Maynard (1891), Man. N. Am. Butts.: fig. 10b).

**Original Combination:** *P[apilio]*. *thoas autocles*

**Type Locality:** "Guerrero" [Mexico]

**Types:** Holotype in BMNH.

= ‡"nigrocaudata" Vázquez, 1948

An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 19(1): 234-235.

**Original Combination:** *Papilio thoas autocles* f[orma]. *nigro-caudata*

**Type Locality:** "Mapastepec, Chis...Tierra Blanca, Ver." [Mexico]

**Types:** "Syntypes" in UNAM and MGCL.

= ‡"ochracea" Beutelspacher, 1976

Revta. Soc. Méx. Lepid. 2(2): 63.

**Original Combination:** *Papilio thoas autocles* forma *ochracea*

**Type Locality:** "Yaxchilan, Chis." [Chiapas, Mexico]

**Types:** "Holotype" in UNAM.

= ‡"nigrimarginata" Beutelspacher, 1976

Revta. Soc. Méx. Lepid. 2(2): 63.

**Original Combination:** *Papilio thoas autocles* ab. *nigrimarginata*

**Type Locality:** "Tajín, Ver." [Veracruz, Mexico]

**Types:** "Holotype" in de la Maza collection.

306. **Papilio crespontes** Cramer, 1777

Uitl. Kapellen 2(14): 106-107, pl. 165, figs. A ♀ D&V, pl. 166, fig. B ♂ D; (16): 148; cited Daubenton [1765], Miscellanea: pl. 69.

**Original Combination:** *Pap[ilio]*. *Equ[es]*. *Achiv[us]*. *Crespontes*

**Type Locality:** "Noord-Amerika, te Nieuw-jork en op het Eiland Jamaika...Zuid-Carolina" "l'Amerique Septentrionale, à la nouvelle-York & dans l'Isle de la Jamaïque...Caroline Méridionale"

**Types:** Location of type(s) not known, probably lost.

= ‡*oxilus* (Hübner, [1819])

Verz. bekannt. Schmett. (6): 83, no. 850; cited *Papilio crespontes* Cramer, 1777, Uitl. Kapellen 2(14): pls. 166 A & 165 B.

**Original Combination:** *Heracles Oxilus*

Proposed as a replacement name for *Papilio crespontes* Cramer, 1777, erroneously thought preoccupied, with the same data; a junior objective synonym of *crespontes*.

= *pennsylvanicus* F. Chermock & R. Chermock, 1945

Proc. Penn. Acad. Sci. 19: 38-39.

**Original Combination:** *Papilio crespontes pennsylvanicus*

**Type Locality:** "State College, Pa." [Centre County, Pennsylvania]

**Types:** Holotype in CMNH.

= ‡"lurida" Schultz, 1908

Entomol. Z. 22(23): 92.

**Original Combination:** *Papilio crespontes* ab. (nov.) *lurida*

**Type Locality:** Not stated.

**Types:** Location of "type" not known.

= ‡"luxuriosa" Reiff, 1911

Z. wiss. InsektBiol. 7(5/6): 159.

**Original Combination:** [*Papilio thoas crespontes*] ab. *luxuriosa*

**Type Locality:** Not stated.

**Types:** "Holotype" in MCZ.

= ‡"intacta" Strand, 1917

Soc. Entomol. 33(12): 47.

**Original Combination:** *Papilio crespontes* ab. *intacta*

**Type Locality:** Not stated.

**Types:** Location of "type" not known, possibly in DEL.

- =  $\S$ "maxwelli" Franck, 1919  
Bull. Brooklyn Entomol. Soc. 14(1): 3, fig. 2 ("holotype").  
**Original Combination:** *Papilio cresphontes* var. *maxwelli*  
**Type Locality:** Not originally stated; said to be "St. Petersburg, Fla." by Franck (1919), Bull. Brooklyn Entomol. Soc. 14(3): 101. [Pinellas County, Florida]  
**Types:** "Holotype" in USNM, according to Calhoun (1992), J. Lepid. Soc. 46(3): 238.
  - =  $\S$ "forsythae" Gunder, 1933  
Can. Entomol. 65(8): 171.  
**Original Combination:** *Papilio cresphontes* tr. f. *forsythae*  
**Type Locality:** "Florida City, Florida" [Miami-Dade County]  
**Types:** "Holotype" in AMNH.
  - =  $\S$ "melanurus" Hoffmann, 1940  
An. Inst. Biol. Univ. Méx. 11(2): 633-634.  
**Original Combination:** *Papilio cresphontes* forma *melanurus*  
**Type Locality:** "Chilpancingo e Iguala" [Guerrero, Mexico]  
**Types:** "Syntypes" in AMNH.
- \*307. **Papilio astyalus** Godart, 1819  
*In:* Ency. méth. 9(Ins.) (1): (20), 62, no. 102.  
**Original Combination:** *Papilio Astyalus*  
**Type Locality:** "Brésil"  
**Types:** Holotype should be in MNHP.
- = *lycophron* (Hübner, [1823])  
Samm. exot. Schmett. 2: pl. [100], figs. 1 ♂ D, 2 ♂ V.  
**Original Combination:** *Heracles Lycophron*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost.
  - = *mentor* Dalman, 1823  
Analecta Entomol.: 37-38, no. 2.  
**Original Combination:** *Papilio Mentor*  
**Type Locality:** "Brasilia?"  
**Types:** Holotype possibly in NHRS.
  - =  $\S$ "pirithous" Boisduval, 1836  
Spec. gén. Lépid. 1: 358-359, no. 201.  
**Original Combination:** *Papilio Pirithous*  
**Type Locality:** "Cuba...Missions de l'Uruguay"; defined as "Uruguay" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 573.  
**Types:** Type(s) probably in BMNH.  
Preoccupied by *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235.
  - = *oebalus* Boisduval, 1836  
Spec. gén. Lépid. 1: 360-361, no. 204.  
**Original Combination:** *Papilio Oebalus*  
**Type Locality:** "l'Amerique du Sud"  
**Types:** Type(s) probably in BMNH.
  - =  $\S$ "delunensis" Niepelt, 1916  
*In:* Strand, Lepid. Niepelt. 2: 21, pl. 13, fig. 10.  
**Original Combination:** *Papilio lycophron* ab. *delunensis*  
**Type Locality:** "Brazil"  
**Types:** Location of "type(s)" not known, possibly DEI.
  - =  $\S$ "paulina" Krüger, 1934  
Entomol. Rdsch. 51(14): 152.  
**Original Combination:** *Papilio lycophron* ♀ f. *paulina*  
**Type Locality:** "São Paulo...Minas Geraës" [Brazil]  
**Types:** "Holotype" possibly in ZMUH.
  - =  $\S$ "thersitoides" Rousseau-Decelle, 1943  
Bull. Soc. Entomol. Fr. 48(8): 111.  
**Original Combination:** *Papilio lycophron* *lycophron* f. ind. ♂ *thersitoides*  
**Type Locality:** "Bella Vista, Parana, Argentinien"  
**Types:** "Holotype" in MNHP.
  - =  $\S$ "suffusa" Rousseau-Decelle, 1943  
Bull. Soc. Entomol. Fr. 48(8): 111.  
**Original Combination:** *Papilio lycophron* ♀ *pirothous* f. ind. ♀ *suffusa*  
**Type Locality:** "Paraguay"  
**Types:** "Holotype" in MNHP.
  - $\S$ "drepanon" G. Gray, 1856  
List Spec. Lepid. Ins. Brit. Mus. (1): 53, no. 202.  
**Original Combination:** *Papilio Drepanon*  
This name was listed without a description or indication; a *nomen nudum*.

- a. ***Papilio astyalus pallas*** G. Gray, [1853]  
Cat. Lepid. Ins. Brit. Mus. 1: 39, no. 193, pl. 6, fig. 1 ♂ D&V; under *Papilio oebalus*.  
**Original Combination:** *Papilio Pallas*  
**Type Locality:** "Mexico"; stated to be "Oajaca" by E. Doubleday [1845], List Spec. Lepid. Brit. Mus. 1: 17. [Oaxaca]  
**Types:** Holotype in BMNH.  
This name was proposed without a description or indication by E. Doubleday [1845], List Spec. Lepid. Brit. Mus. 1: 17, and (1846), in: Gen. diurn. Lepid. (1)(2): 17, no. 168; both are *nomina nuda*.  
= *hozaus* Ehrmann, 1921  
Lepidoptera 5(1): 3.  
**Original Combination:** *Papilio hozaus*  
**Type Locality:** "Costa Rica"  
**Types:** Type(s) probably in CMNH.
- b. ***Papilio astyalus bajaensis*** J. Brown & Faulkner, 1992  
Butts. Baja Calif.: 54.  
**Original Combination:** *Papilio astyalus bajaensis*  
Proposed as a replacement name for *Papilio (Heraclides) astyalus occidentalis* J. Brown & Faulkner, 1984, preoccupied, with the same data (Code Article 60.3).  
= *occidentalis* J. Brown & Faulkner, 1984  
Bull. Allyn Mus. (83): 5-6, figs. 3a ♂ D, 3b ♂ V, 3c ♀ D.  
**Original Combination:** *Papilio (Heraclides) astyalus occidentalis*  
**Type Locality:** "San Antonio microwave tower, Baja California Sur, Mexico"  
**Types:** Holotype in SDMC.  
Preoccupied by *Papilio blumei occidentalis* Martin, 1915, Dtsche. Entomol. Z. "Iris" 291: 75.
308. ***Papilio ornythion*** Boisduval, 1836  
Spec. gén. Lépid. 1: 354, no. 196.  
**Original Combination:** *Papilio Ornythion*  
**Type Locality:** "Yukatan" [Mexico]  
**Types:** Holotype probably in BMNH.
- \*309. ***Papilio aristodemus*** Esper, 1794  
Magaz. Neuest. Ausl. Ins. 1: 8, pl. papill. exot. 2, fig. 2 ♂ D&V; figured by Esper (1801), Ausl. Schmett. (16): 240, pl. 59, fig. 2 ♂ D&V.  
**Original Combination:** *Pap[ilio]. Equ[es]. Archiv[us]. Aristodemus*  
**Type Locality:** "Port-au-Prince" [Haiti]  
**Types:** Location of type(s) not known, probably lost.  
= *cresphontinus* Martyn, 1797  
Psyche: pl. 3, fig. 8; pl. 4, fig. 10.  
**Original Combination:** *Papilio Cresphontinus*  
**Type Locality:** "Amboyna" in error. [Maluku Islands, Indonesia]  
**Types:** Location of "type(s)" not known.  
= *daphnis* G. Gray, [1853]  
Cat. Lepid. Ins. Brit. Mus. 1: 39, no. 198.  
**Original Combination:** *Papilio Daphnis*  
**Type Locality:** "Antilles?"  
**Types:** Holotype in BMNH.  
Preoccupied by *Papilio daphnis* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182.
- a. ***Papilio aristodemus ponceanus*** Schaus, 1911  
Entomol. News 22(10): 438-439.  
**Original Combination:** *Papilio ponceanus*  
**Type Locality:** "Miami, Florida" [Miami-Dade County]  
**Types:** Syntypes in USNM.  
= *driophilus* Clench, 1979  
J. Lepid. Soc. 32(4): 273-274.  
**Original Combination:** *Papilio aristodemus driophilus*  
**Type Locality:** "Cutlass Bay, near Dolphin Head, southern Cat Island, Bahamas"  
**Types:** Holotype (#680) in CMNH.  
Simon and L. Miller (1986), Bull. Allyn Mus. (105): 13, determined this synonymy.
- \*310. ***Papilio andraemon*** (Hübner, [1823])  
Samml. exot. Schmett. 2: pls. [98], figs. 1 ♂ D, 2 ♂ V, [99], figs. 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Heraclides Andraemon*  
**Type Locality:** Not stated; defined as "Cuba" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 571.  
**Types:** Type(s) probably lost.  
= *hernandezi* (R. Torre, 1936)  
Mems. Soc. Cubana Hist. Nat. 10(5): 333-334, pl. 24, fig. 2 ♂ D&V.  
**Original Combination:** *Papilio (Heraclides) andraemon hernandezi*  
**Type Locality:** "Ampliación de Almendares, Marianao, Habana, Cuba"  
**Types:** Location of type(s) not known, possibly in IZAC.
- a. ***Papilio andraemon bonhottei*** Sharpe, 1900  
Proc. Zool. Soc. Lond. 1900(2): 201, no. 19, pl. 19, figs. 1 ♂ D, 1a ♂ V, 1b ♀ D, 1c ♀ V.



**Original Combination:** *Papilio bonhotei*

**Type Locality:** "Nassau" [Bahamas]

**Types:** Holotype in BMNH.

- \*311. **Papilio androgeus** Cramer, 1775  
Uitl. Kapellen 1(2): 24, pl. 16, figs. C ♂ D, D ♂ V; (8): 151 (index).

**Original Combination:** *Pap[ilio]. Eq[ues]. Trojan[us]. Androgeus*

**Type Locality:** "Surinamen" "Surinam"

**Types:** Location of type(s) not known, probably lost.

= *orestes* Meerburgh, [1777]

Afbeeld. Gewass.: [15] D<sub>2</sub>, [16] D<sub>2</sub> verso, pls. 26 ♂ D, 30 ♂ V.

**Original Combination:** *Papilio (Orestes)*

**Type Locality:** Not stated.

**Types:** Location of type(s) not known, probably lost.

= *polycaon* Cramer, 1779

Uitl. Kapellen 3(17): 17-18, pl. 203, figs. A ♂ D, B ♂ V; (24): 176 (index).

**Original Combination:** *Pap[ilio]. Eq[ues]. Achiv[us]. Polycaon*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Location of type(s) not known, probably lost.

= *piranthus* Cramer, 1779

Uitl. Kapellen 3(17): 18-19, pl. 204, figs. A ♀ D, B ♀ V; (24): 176 (index); cited Merian (1705), Ins. Surinam.: pl. 31, Seba (1765), Locuplet. Rerum. Nat. Thes. 4: pl. 38, figs. 13, 14, and Kleeman (1765), Beytr. Nat. Ins. 1: pl. 8, figs. 1, 2.

**Original Combination:** *Pap[ilio]. Eq[ues]. Achiv[us]. Piranthus*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Location of type(s) not known, probably lost.

= *acanthus* Gmelin, [1790]

Syst. Nat. (ed. 13) 1(5): 2231, no. 290B, under *Papilio androgeus*; cited *Papilio piranthus* Cramer, 1779, Uitl. Kapellen 3(17): 18-19, pl. 204, figs. A, B.

**Original Combination:** *Papilio Acanthus*

**Type Locality:** "Surinamo"

**Types:** Location of type(s) not known.

= *bagous* Fruhstorfer, 1910

In: Koch-Grünberg, Zwei Jahre Indianern 2: 357-358, no. 54.

**Original Combination:** *Pap[ilio]. Androgeus bagous*

**Type Locality:** Not specifically stated; "oberen Rio Negro" implied from the introduction (pp. 350-351), "nordwest-Brasilien" from the title of the work.

**Types:** Location of type(s) not known, possibly in ZMHB or BMNH.

= ♯"mira" Fassl, 1922

Entomol. Rdsch. 39(1): 1.

**Original Combination:** *Papilio androgeus* ♀ form. *mira*

**Type Locality:** "Manicoré" [Amazonas, Brazil]

**Types:** "Holotype" in NHMB.

= ♯"feyeri" Niepelt, 1924

Int. Entomol. Z. 18(11): 49.

**Original Combination:** *Papilio androgeus* ♀ forma *feyeri*

**Type Locality:** "Ecuador"

**Types:** "Holotype" in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 87, fig. 1 ♀ D.

= ♯"fassli" Knop, 1925

Entomol. Z. 39(11): 43.

**Original Combination:** *Papilio Androgeus* var. *Fassli*

**Type Locality:** "Manicoré Brasilien" [Amazonas, Brazil]

**Types:** "Holotype" in NHMB.

The text clearly indicates that this taxon was described as an individual variant.

= ♯"decellei" Krüger, 1934

Entomol. Rdsch. 51(14): 151.

**Original Combination:** *Papilio androgeus* ♀ *androgeus* ab. *Decellei*

**Type Locality:** "São Paulo de Olivença" [Amazonas, Brazil]

**Types:** "Holotype" possibly in ZMUH.

= ♯*hibisci* Fabricius, 1938

In: Bryk, Syst. Glossat.: 34, no. 57; cited *Papilio androgeus* Cramer, 1775, Uitl. Kapellen 1(2): 24, pl. 16, figs. C ♂ D, D ♂ V.

**Original Combination:** *P[apilio]. T[rojanus]. Hibisci*

Proposed as a replacement name for *Papilio androgeus*, based on a supposed foodplant name; a junior objective synonym of *androgeus*.

= ♯*altheae* Fabricius, 1938

In: Bryk, Syst. Glossat.: 48, no. 107; cited *Papilio polycaon* Cramer (1779), Uitl. Kapellen 3(17): 17, pl. 203, figs. A ♂ D, B ♂ V.

**Original Combination:** *P[apilio]. A[chivus]. Altheae*

Proposed as a replacement name for *Papilio polycaon* Cramer (1779), based on a supposed foodplant name; a junior objective synonym of *polycaon*.

- a. ***Papilio androgeus epidaureus*** Godman & Salvin, 1890  
 Biol. centr.-amer., Lepid. Rhop. 2(88): 224-225, no. 55; 3(89): pl. 69, figs. 1 ♀ D, 2 ♀ V, 3 ♂ valve.  
**Original Combination:** *Papilio epidaureus*  
**Type Locality:** "Mexico, Ciudad, Ventanas in Durango...Cordova...San Lorenzo near Cordova...Atoyac...Guatemala, forests of Northern Vera Paz, Yzabal, Polochic valley...Panzos...Pacific coast...El Reposo...Nicaragua, Chontales...Costa Rica...Panama, Bugaba...Calobre...Veraguas...Lion Hill...San Domingo"  
**Types:** Syntypes in BMNH.  
 = *†"ochracea"* Beutelspacher, 1976  
 Revta. Soc. Méx. Lepid. 2(2): 65, fig. 4 ♂ D&V ("holotype").  
**Original Combination:** *Papilio androgeus epidaureus* forma *ochracea*  
**Type Locality:** "Yaxchilán, Chis." [Chiapas, Mexico]  
**Types:** "Holotype" in UNAM.
- \*312. ***Papilio anchisiades*** Esper, 1788  
 Ausl. Schmett. (4): 53-55, pl. 13, figs. 1 ♂ D&V, 2 ♀ D&V; cited *Papilio anchises* (*sensu* Cramer, 1782, Uitl. Kapellen 4(27): pl. 318, figs. A, B), and Merian (1705), Ins. Surinam.: pl. 17.  
**Original Combination:** *P[apilio]. Equ[es]. Troj[anus]. Anchisiades*  
**Type Locality:** "Surinam" implied from the citations.  
**Types:** Location of type(s) not known. Esper might have based his description on Cramer's illustration of *anchises*.  
 Hemming (1964), Annot. Lepid. (3): 106, discussed the name *Papilio anchises* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 10 (a taxon currently in the genus *Parides*), and designated Cramer's fig. A as the lectotype of *P. anchisiades*.  
 = *†hipponous* (Hübner, [1819])  
 Verz. bekannt. Schmett. (6): 87, no. 896; cited *Papilio anchises* Cramer, 1780, Uitl. Kapellen 4(27): pl. 318, figs. A-D.  
**Original Combination:** *P[ariamides]. Hipponous*  
 Proposed to replace *Papilio anchises* (*sensu* Cramer, 1780, Uitl. Kapellen 4(27): 58, pl. 318, fig. A; not *anchises*). The lectotype is Cramer's figure, designated by Hemming (1964), Annot. Lepid. (3): 107. A junior objective synonym of *anchisiades*.  
 = *archelaus* Godart, 1819  
 In: Ency. méth. 9(Ins.)(1): (14), 32, no. 19; cited Merian (1705), Ins. Surinam.: pl. 17, *Papilio anchises* Cramer, 1780, Uitl. Kapellen 4(27): pl. 318, figs. A-D, Stoll (1787), Aanhangs. Werkes Uitl. Kapellen Pieter Cramer (1): pl. 1, fig. 2 larva, and *Princeps anchises* (*sensu* Hübner [1812], Samml. exot. Schmett. 1: pl. [119]).  
**Original Combination:** *Papilio Archelaus*  
**Type Locality:** "la Guyane au Brésil"  
**Types:** Type(s) may be in MNHP.  
 = *theramenes* C. Felder & R. Felder, 1861  
 Wien. Entomol. Montaschr. 5(3): 74, no. 9.  
**Original Combination:** *Papilio Theramenes*  
**Type Locality:** "Venezuela, in provincia Caracas"  
**Types:** Syntype in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 81, fig. C ♀ D.  
 = *matusiki* (K. Johnson & Rozycki, 1986)  
 J. N. Y. Entomol. Soc. 94(3): 388-389, figs. 1A ♂ D, 1B ♂ V (holotype), 3H ♂ genitalia, 5A ♂ valve.  
**Original Combination:** *Heracles matusiki*  
**Type Locality:** "Venezuela, Caripito" [Monagas]  
**Types:** Holotype in AMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 81, figs. K ♂ V, 7 ♂ D.
- a. ***Papilio anchisiades idaeus*** Fabricius, 1793  
 Entomol. Syst. 3(1): 16, no. 48; cited Jones' Icones 1: pl. 25; figured by Donovan (1800), Epit. Ins. India: pl. 18, fig. 2 (a copy from Jones' Icones).  
**Original Combination:** *P[apilio]. E[ques Trojanus] Idaeus*  
**Type Locality:** "Madras Mus. Dom. Drury" in error. [India]  
**Types:** Type(s) probably lost; based on specimens figured by Jones.  
 = *pandion* H. Bates, 1863  
 Proc. Zool. Soc. Lond. 1863(2): 242, no. 5.  
**Original Combination:** *Papilio Anchisiades* var. *pandion*  
**Type Locality:** "Southern Mexico"  
**Types:** Holotype probably in BMNH.  
 This butterfly was listed without a description or indication by Bates (1861), Trans. Entomol. Soc. Lond. (2)5[10](8): 338; a *nomen nudum*.  
 = *†pandonius* Staudinger, 1894  
 Dtsche. Entomol. Z. "Iris" 7(1): 104 (nota).  
**Original Combination:** [*Papilio*] *Pandonius*  
 Proposed as a replacement name for *Papilio pandion* C. Felder & R. Felder, [1865], erroneously thought preoccupied.
- \*313. ***Papilio rogeri*** Boisduval, 1836  
 Spec. gén. Lépid. 1: 278-279, no. 102.  
**Original Combination:** *Papilio Rogeri*  
**Type Locality:** "Yukatan" [Mexico]  
**Types:** Holotype in MNHP.
- a. ***Papilio rogeri pharnaces*** E. Doubleday, 1846  
 Ann. Mag. Nat. Hist. [1]18(121): 374-375; figured by G. Gray [1853], Cat. Lepid. Ins. Brit. Mus.: 64, no. 282, pl. 5 fig. 1 ♂ D.

**Original Combination:** *Pap[ilio]. Pharnaces*

**Type Locality:** "America Merid."; Godman and Salvin (1890), Biol. centr.-amer., Lepid. Rhop. 2(88): 231-232, no. 64, noted that all specimens in the BMNH were from "Oaxaca." [Mexico]

**Types:** Holotype in the Loddiges collection, possibly in BMNH.

Recorded from Texas by Bordelon (1998), News Lepid. Soc. 40(2): 38.

= *phanostratus* Godman & Salvin, 1890  
Biol. centr.-amer., Lepid. Rhop. 2(88): 232, no. 65.

**Original Combination:** *Papilio phanostratus*

**Type Locality:** "Mexico, Jalapa" [Veracruz]

**Types:** Holotype in BMNH.

= *polycharmus* Godman & Salvin, 1890  
Biol. centr.-amer., Lepid. Rhop. 2(88): 232, no. 66; 3(90): pl. 70, fig. 10 ♂ D.

**Original Combination:** *Papilio polycharmus*

**Type Locality:** "Mexico, Presidio de Mazatlan" [Sinaloa]

**Types:** Holotype in BMNH.

= ⚔ "paucimaculata" Vázquez, 1947  
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 18(1): 249-252, figs. 1 ♂ D, 2 ♂ V ("holotype").

**Original Combination:** *Papilio pharnaces* forma masculina *paucimaculata*

**Type Locality:** "Empalme Escobedo, Guanajuato" [Mexico]

**Types:** "Holotype" in MGCL.

= ⚔ "dissimilis" Vázquez, 1957  
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 27(2): 478, fig. 6 ♂ D ("holotype").

**Original Combination:** *Papilio pharnaces* [forma], *dissimilis*

**Type Locality:** "El Ocotal, Chis." [Chiapas, Mexico]

**Types:** "Holotype" in MGCL.

#### Subgenus *Pterourus* Scopoli, 1777

Intro. Hist. Nat.: 433, no. 173. Type-species: *Papilio troilus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 459, no. 5, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 64. Zakharov *et al.* (2004), Syst. Biol. 53(2): 193-215, suggested that this group (with the present synonymy) could be considered a genus-level taxon.

= *Jasoniades* Hübner, [1819]

Verz. bekannt. Schmett. (6): 83. Type-species: *Papilio turnus* Linnaeus, 1771, Mant. Plant. (2nd ed.): 536 (= *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 199-200, no. 590. As first reviser, Hemming (1934), Gen. Names Holarct. Butts. 1: 147, gave precedence to *Jasoniades* over *Euphoeades*.

= *Euphoeades* Hübner, [1819]

Verz. bekannt. Schmett. (6): 83. Type-species: *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 172, no. 431.

= ⚔ "Caudati" Koch, 1860

Stettiner Entomol. Ztg. 21 (4-6): 230. Type-species: *Papilio turnus* Linnaeus, 1771, Mant. Plant. (2nd ed.) 2: 536 (= *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9; synonym), by designation of Hemming (1935), Entomol. 68(2)[861]: 40. This name as proposed is not a noun in the nominative singular, and is thus invalid (Code Article 11.8).

= *Pyrrhosticta* Butler, 1872

Cist. Entomol. 1(4): 86. Type-species: *Papilio laetitia* Butler, 1872, Cist. Entomol. 1(4): 84-85 (= *Caliades menatius* Hübner, [1819], Verz. bekannt. Schmett. (6): 86; subspecies), by monotypy.

= *Motasiona* Niculescu, 1979

Revue roum. Biol. (Ser. Biol. Anim.) 24(1): 9-10. Type-species: *Papilio zagreus* E. Doubleday, 1847, Ann. Mag. Nat. Hist. [1]19(125): 174-175, by original designation.

314. ***Papilio canadensis*** Rothschild & Jordan, 1906

Novit. Zool. 13(3): 586-587, no. 79; cited *Papilio glaucus* (*sensu* Gosse (1840), Can. Nat.: fig., Saunders (1874), Can. Entomol. 6: fig. 1, (1875), Rep. Entomol. Soc. Ontario 1874, figs. 13, 14, (1881), Rep. Entomol. Soc. Ontario 1880: figs. 40, 41, W. H. Edwards (1877), Butts. N. Am. 2(6): pl. Papilio 5, fig. 1 ♂ D, and Maynard (1891), Manual N. Am. Butts.: pl. 1, fig. 1).

**Original Combination:** *Papilio glaucus canadensis*

**Type Locality:** "Newfoundland"; holotype from "St. John's." [Newfoundland and Labrador]

**Types:** Holotype in BMNH.

R. Hagen *et al.* (1991), J. Lepid. Soc. 45(4): 245-246, elevated this taxon to the species-level.

= *arcticus* Skinner, 1906  
Entomol. News 17(10): 379.

**Original Combination:** *Papilio rutulus arcticus*

**Type Locality:** "Eagle City, Alaska...Athabaska River, Canada"; lectotype from "Eagle, Alaska."

**Types:** Lectotype (#7027) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, fig. 6 ♂ V, as "holotype."

= ⚔ "fletcheri" Kemp, 1900  
Entomol. News 11(5): 482.

**Original Combination:** *Papilio turnus* ab. *fletcheri*

**Type Locality:** "Elizabeth, New Jersey" implied from the text. [Union County]



- Types:** "Holotype" in AMNH.  
 = *fborealis* Boullet & Le Cerf, 1912  
 Bull. Mus. Nat. Hist. Nat., Paris Suppl. [1]18(2): 24.  
**Original Combination:** [*Papilio glaucus-canadensis*] f[orm]. *borealis*?  
**Type Locality:** "Terre-Neuve, Dear River" [Newfoundland and Labrador]  
**Types:** "Holotype" in MNHP.  
 = *fdeliciens* Dufrane, 1946  
 Bull. Anns. Soc. Entomol. Belg. 82(5/6): 115.  
**Original Combination:** *P[apilio]. glaucus canadensis* ab. *deficiens*  
**Type Locality:** "Etats-Unis d'Amérique, sans localité précise"  
**Types:** "Holotype" may be in ISRN.
315. ***Papilio appalachiensis*** (Pavulaan & D. Wright, 2002)  
 Tax. Rep. Int. Lepid. Surv. 3(7): 8, 11-13, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Pterourus appalachiensis*  
**Type Locality:** "Buck Creek Serpentine Barrens, 3200', Clay County, North Carolina"  
**Types:** Holotype in MGCL.  
 Scriber and Ordning (2005), Entomol. Exp. Appl. 115(1): 247-264, corroborated the species-level status for this taxon.
316. ***Papilio glaucus*** Linnaeus, 1758  
 a. ***Papilio glaucus glaucus*** Linnaeus, 1758  
 Syst. Nat. (ed. 10) 1: 460, no. 9; Linnaeus (1764), Mus. Lud. Ulr. [1]: 190, no. 9, cited Clerck [1764], Icon. Ins. 2: pl. 24, fig. 1.  
**Original Combination:** *P[apilio]. E[ques Trojanus]. Glaucus*  
**Type Locality:** "America"; neotype from "Sandbridge, Virginia Beach, Virginia." [Southampton County]  
**Types:** Type(s) apparently lost. Neotype in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 6, fig. 19 ♀ D.  
 This species formed part of the type series of *Papilio ajax* (see *Eurytides marcellus*), based on Ray (1710), Hist. Ins.: 111, no. 2.  
 = *antiochus* Linnaeus, 1758  
 Syst. Nat. (ed. 10) 1: 463, no. 28; cited Petiver (1699), Mus. Petiver. Cent. Rar. Nat. Cont. (6/7): 50, no. 505, and Catesby (1743), Nat. Hist. Carolina 2: pl. 83.  
**Original Combination:** *P[apilio]. E[ques Achivus] Antiochus*  
**Type Locality:** "America septentrionali"; neotype from "Corapeake, Gates Co., NC." [North Carolina]  
**Types:** Location of type(s) not known, probably lost or unrecognizable. Neotype in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 6-7, fig. 17 ♂ D.  
 = *turnus* Linnaeus, 1771  
 Mant. Plant. (2nd ed.): 536.  
**Original Combination:** *Papilio E[quites]. A[chivus]. Turnus*  
**Type Locality:** "America"  
**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 389.  
 = *alcidamus* Cramer, 1775  
 Util. Kapellen 1(4): 62, pl. 38, figs. A ♂ D, B ♂ V; (8): 151 (index).  
**Original Combination:** *Pap[ilio]. E[ques]. Achivus Alcidamus*  
**Type Locality:** "Jamaika...Nieuw-Jork en Carolina" "Jamaïque...Nouvelle York & dans la Caroline"; defined as "New York, Carolina" by Rothschild and Jordan (1906), Novit. Zool. 13(3): 583; supposed neotype from "Sandbridge, Virginia Beach, VA." [Southampton County, Virginia]  
**Types:** Probable syntype (#665024) in BMNH; the "neotype" in MGCL, designated by Pavulaan and D. Wright (2002), Tax. Rep. Int. Lepid. Surv. 3(7): 7, fig. 18 ♂ D, is not valid (Code Article 75.3.4).  
 = *flauri* Fabricius, 1938  
 In: Bryk, Syst. Glossat.: 22, no. 13; cited *Papilio glaucus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 460, no. 9.  
**Original Combination:** *P[apilio]. T[rojanus]. Lauri*  
 Proposed as a replacement name for *Papilio glaucus* Linnaeus, 1758, based on a foodplant name; a junior objective synonym of *Papilio glaucus*.  
 = *delunaris* Schultz, 1908  
 Entomol. Z. 22(23): 92.  
**Original Combination:** *Papilio glaucus* ab. (nov.) *delunaris*  
**Type Locality:** "Seranton, N.-Amerika"; corrected to "Scranton" by Schultz (1908), Entomol. Z. 22(29): 119. [Lackawanna County, Pennsylvania]  
**Types:** Location of "type" not known.  
 = *perfulva* Schultz, 1908  
 Entomol. Z. 22(23): 92.  
**Original Combination:** *Papilio glaucus* ab. (nov.) *perfulva*; an incorrect original spelling. Corrected to "*perfulva*" by Schultz (1908), Entomol. Z. 22(29): 119.  
**Type Locality:** Not stated.  
**Types:** Location of "type" not known.  
 = *imperfecta* Reiff, 1911  
 Z. wiss. Insektbiol. 7(5/6): 157.  
**Original Combination:** [*Papilio glaucus turnus*] ab. *imperfecta*

- Type Locality:** Not stated.  
**Types:** "Holotype" in MCZ.  
 = ♀"wheeleri" Reiff, 1911  
 Z. wiss InsektBiol. 7(5/6): 158.  
**Original Combination:** [*Papilio glaucus turnus*] ab. *wheeleri*  
**Type Locality:** Not stated.  
**Types:** "Holotype" in MCZ.  
 = ♀"paupercula" Reiff, 1911  
 Z. wiss InsektBiol. 7(5/6): 158.  
**Original Combination:** [*Papilio glaucus turnus*] ab. *paupercula*  
**Type Locality:** Not stated.  
**Types:** "Holotype" in MCZ.  
 = ♀"niger" Hering, 1912  
 Z. wiss InsektBiol. 8(7/8): 234, fig. ♀ D.  
**Original Combination:** [*Papilio turnus*] ab. *niger*  
**Type Locality:** Not stated.  
**Types:** Location of "holotype" not known.  
 = ♀"dietzi" Gunder, 1927  
 Entomol. News 38(9): 266, pl. 5, fig. A ♀ D ("holotype").  
**Original Combination:** *Papilio glaucus* form *turnus* tr. f. *dietzi*  
**Type Locality:** "Van Courtland [*sic!*] Park, New York" [Bronx County]  
**Types:** "Holotype" in AMNH.  
 = ♀"gerhardi" Gunder, 1927  
 Entomol. News 38(9): 266-267, pl. 5, fig. B ♂ D ("holotype").  
**Original Combination:** *Papilio glaucus* form *turnus* tr. f. *gerhardi*  
**Type Locality:** "Evansville, Indiana" [Vanderburgh County]  
**Types:** "Holotype" in FMNH.  
 ♀"ehrmanni" McDunnough, 1938  
 Mem. South. Calif. Acad. Sci. 1: 5.  
**Original Combination:** [*Papilio glaucus*] ab. *ehrmanni*  
 This name was listed in the synonymy of *Papilio glaucus* without a description or indication; a *nomen nudum*.  
 ♀"nigra" Scott, 1981  
*Papilio* (n.s.) 1: 1.  
**Original Combination:** *Papilio glaucus* form *nigra*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- b. ***Papilio glaucus maynardi*** Gauthier, 1984  
 Shilap Revta. Lepid. 12(3): 210.  
**Original Combination:** *Papilio glaucus maynardi*  
 Proposed to replace *Papilio turnus australis* Maynard, 1891, preoccupied, with the same data (Code Article 60.3). This taxon may best be considered a "clinal phenotype," as suggested by Calhoun (1997), Holarct. Lepid. 4(2): 44.  
 = ♀*australis* Maynard, 1891  
 Manual N. Am. Butts.: 12; appendix, 215, no. 15a.  
**Original Combination:** *Papilio turnus australis*  
**Type Locality:** "Florida"  
**Types:** Holotype in MCZ.  
 Preoccupied by *Papilio rumina australis* Esper, 1781, Schmett. 1(2) (4): 115, pl. 72, fig. 4.
- \*317. ***Papilio alexiaries*** Höpfer, 1866  
 Stettiner Entomol. Ztg. 27(1-3): 31, no. 12.  
**Original Combination:** [*Papilio*] *Alexiaries*  
**Type Locality:** "Mexico"; Rothschild and Jordan (1906), Novit. Zool. 13(3): 592, stated that "Vera Cruz: Cuesta de Misanla, Mexico" was the known range.  
**Types:** Type(s) may be in ZMHB.
- a. ***Papilio alexiaries garcia*** Rothschild & Jordan, 1906  
 Novit. Zool. 13(3): 592, no. 83a.  
**Original Combination:** P[*papilio*]. *alexiaries garcia*  
**Type Locality:** "Monterrey, San Luis Potosi" [Mexico]  
**Types:** Syntypes in BMNH.  
 Recorded from Texas by Grishin and A. Warren (2004), News Lepid. Soc. 46(3): 75, 83, 15 figs. Various recent authors (*e.g.* Tyler *et al.* (1994), Swallowtail Butts. Am.: 33, Llorente *et al.* (1996), Biodivers. Taxon. Biogeogr. Artrop. Méx.: 545, (1997), Pap. Pier. Méx.: 8, 15, 51, 137, 162, 198, and Lamas (2004c), Atl. Neotrop. Lepid. Chcklst. Part 4A: 97) have considered *alexiaries* and *garcia* to be subspecies of *P. glaucus*; however, relationships between these taxa require further elaboration.
318. ***Papilio rutulus*** Lucas, 1852  
 Revue Mag. Zool. (2)4(3): 138-140.  
**Original Combination:** *Papilio Rutulus*  
**Type Locality:** "Californie"; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River, 2400', Plumas County, California" by J. Emmel *et al.* (1998) Syst. W. N. Am. Butts. (3): 78.  
**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78, figs. 4 ♂ D, 5 ♂ V.

- = *rutulus* Boisduval, 1852  
Annls. Soc. Entomol. Fr. (2)10(2): 279-280, no. 1  
**Original Combination:** *Papilio rutulus*  
**Type Locality:** "Californie" implied from the title of the paper.  
**Types:** Syntypes in USNM.  
Preoccupied by *Papilio rutulus* Lucas, 1852, Revue Mag. Zool. (2)4(3): 138-140.

- = *arizonensis* W. H. Edwards, 1883  
Papilio 3(1): 3-4; figured by W. H. Edwards (1884), Butts. N. Am. 2(13): pl. Papilio 13, figs. 5 ♂ D, 6 ♂ V.  
**Original Combination:** [*Papilio*] *Rutulus* var. *Arizonensis*  
**Type Locality:** "Arizona and South Colorado"; stated to be "vicinity of Fort Grant, Cochise [sic] Co., and on Graham Mountain" in the introduction to the paper. [Graham County]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book. (rev. ed.): pl. 70, fig. 2 ♂ D, as "type"; figured by F. Brown (1975), Trans. Am. Entomol. Soc. 101(1): 28, fig. 9 ♂ D&V.
- = *ammoni* Behrens, 1887  
Can. Entomol. 19(10): 199.  
**Original Combination:** *Papilio Rutulus*, var. *Ammoni*  
**Type Locality:** "Nevada"  
**Types:** Location of type(s) not known, possibly in AMNH.
- = *"hospitonina"* Boulet & Le Cerf, 1912  
Bull. Mus. Natn. Hist. Nat., Paris Suppl. [1]18(2): 25.  
**Original Combination:** [*Papilio rutulus*] ab. *hospitonina*  
**Type Locality:** "États-Unis, île Vancouver" [British Columbia]  
**Types:** "Holotype" in MNHP.
- = *"fannyae"* Gunder, 1927  
Entomol. News 38(9): 267, pl. 5, fig. C ♂ D ("holotype").  
**Original Combination:** *Papilio rutulus* tr. f. *fannyae*  
**Type Locality:** "Yoncalla, Oregon" [Douglas County]  
**Types:** "Holotype" in AMNH.

319. **Papilio eurymedon** Lucas, 1852 (1805)  
Revue Mag. Zool. (2)4(3): 140-141.  
**Original Combination:** *Papilio Eurymedon*  
**Type Locality:** "Californie"; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River, 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78.  
**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78, figs. 7 ♂ D, 8 ♂ V.  
Wakeham-Dawson (2003), Bull. Zool. Nomen. 60(4): 311-312, established *Papilio eurymedon* Lucas 1852, as a *nomen protectum* (Code Article 23.9.2).
- = *antinous* Donovan, 1805  
Epitome Ins. New Holland: pl. 16 and explicative page.  
**Original Combination:** *Papilio Antinous*  
**Type Locality:** "New South Wales" in error. [Australia]  
**Types:** Holotype in ANIC; figured by Upton (1985), J. Lepid. Soc. 38(3): 158, fig. 2 ♂ D.  
This name was discovered as a senior synonym of *P. eurymedon* by Upton (1985) *ibid.* However, Wakeham-Dawson (2003), Bull. Zool. Nomen. 60(4): 311-312, established *Papilio antinous* Lucas 1852, as a *nomen oblitum* (Code Article 23.9.2).
  - = *eurymedon* Boisduval, 1852  
Annls. Soc. Entomol. Fr. (2)10(2): 280-281, no. 2  
**Original Combination:** *Papilio eurymedon*  
**Type Locality:** "Californie" implied from the title of the paper.  
**Types:** Syntypes in USNM.  
Preoccupied by *Papilio eurymedon* Lucas, 1852, Revue Mag. Zool. (2)4(3): 140-141.
  - = *albanus* C. Felder & R. Felder, 1865  
Reise Novara Zool. (1): 93-94, no. 71.  
**Original Combination:** *Papilio Albanus*  
**Type Locality:** "California"; defined as "Queen Lily Campground, near Belden, North Fork Feather River Canyon, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts.: 88.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 88, figs., 1 ♂ D, 2 ♂ V.  
This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot. Ges. Wien 14: 314, no. 349; a *nomen nudum*.
  - = *"subnigrata"* Schultz, 1908  
Entomol. Z. 22(23): 92.  
**Original Combination:** *Papilio eurymedon* ab. (nov.) *subnigrata*  
**Type Locality:** Not stated.  
**Types:** Location of "type" not known.
  - = *"cocklei"* Gunder, 1925  
Entomol. News 36(7): 200, no. 12, pl. 5, fig. 12 ♂ D ("holotype").  
**Original Combination:** *Papilio eurymedon* form *albanus* ab. ♂ *cocklei*  
**Type Locality:** "Kaslo, British Columbia, Canada"  
**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 1, fig. 1 ♂ D.



- = *‡*"columbiana" Gunder, 1927  
Entomol. News 38(9): 267-268, pl. 5, fig. D ♂ D ("holotype").  
**Original Combination:** *Papilio eurymedon* form *albanus* tr. f. *columbiana*  
**Type Locality:** "Kaslo, British Columbia, Canada"  
**Types:** "Holotype" in AMNH.  
*‡*"lewisii" W. F. Kirby, 1884  
Papilio 4(5-6): 104.  
**Original Combination:** *Papilio Lewisii* (Peale manuscript)  
This taxon is either a *nomen nudum* or an unjustified replacement name.
320. **Papilio multicaudata** W. F. Kirby, 1884  
a. **Papilio multicaudata multicaudata** W. F. Kirby, 1884  
Papilio 4(5-6): 104.  
**Original Combination:** *Papilio Multicaudata*  
Proposed to replace *Papilio daunus* Boisduval, 1836, with the same data (Code Article 60.3).  
Species-genus gender conformation is *multicaudatus*.  
= *‡**daunus* Boisduval, 1836  
Spec. gén. Lépid. 1: 342, no. 182.  
**Original Combination:** *Papilio Daunus*  
**Type Locality:** "Mexique"  
**Types:** Lectotype in MNHP, designated by Austin and J. Emmel (1998), Syst. W. N. Am. Butts. (53): 692-693.  
Preoccupied by *Papilio daunus* Cramer, 1777, Utitl. Kapellen 2(11): 44, pl. 126, fig. F; (16): 148 (index).  
= *‡*"ragani" W. Barnes, 1928  
Pan-Pac. Entomol. 5(1): 5.  
**Original Combination:** *Papilio daunus ragani* ab. nov.  
**Type Locality:** "Baboquivari Mountains, Arizona" [Pima County]  
**Types:** "Holotype" in USNM.  
b. **Papilio multicaudata pusillus** Austin & J. Emmel, 1998  
Syst. W. N. Am. Butts. (54): 694-695, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Papilio multicaudatus pusillus*  
**Type Locality:** "Nevada: Elko County; north end of Independence Mountains (Bull Run Mountains), Nevada State Route 11A, 6.7 road miles east (= northeast) of Nevada State Route 226, 1800-2000 m, T43N R52E S2, 3, 10, 15, 16, 21 and T44N R52E S35, 36 on USGS Bull Run, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- \*321. **Papilio garamas** (Geyer, [1829])  
*In:* Hübner, Samml. exot. Schmett. 3: pl. [20], 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Euphroeades Garamas*  
**Type Locality:** "Mexico"  
**Types:** Type(s) probably lost.  
= *asclepius* (Geyer, [1829])  
*In:* Hübner, Samml. exot. Schmett. 3: pl. [22], 1 ♂ D, 2 ♂ V.  
**Original Combination:** *Heracles Asclepius*  
**Type Locality:** "Mexico"  
**Types:** Type(s) probably lost.  
The relative precedence of *garamas* over *asclepius* follows Lamas (2004c), Atl. Neotrop. Lepid. Chcklst. Part 4A: 97.  
= *cinnatus* Boisduval, 1836  
Spec. gén. Lépid. 1: 346, no. 186.  
**Original Combination:** *Papilio Cinnatus*  
**Type Locality:** "Mexique"  
**Types:** Holotype may be in MNHP or BMNH.  
= *‡*"amisa" (Rothschild & Jordan, 1906)  
Novit. Zool. 13(3): 646, no. 117ba'.  
**Original Combination:** [*Papilio garamas garamas*] ♀ f. *amisa*  
**Type Locality:** "West Mexico: Guadalajara, Cuernavaca, Oaxaca"; lectotype from "Cuernavaca." [Morelos]  
**Types:** "Lectotype" in BMNH, designated by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 95, fig. E ♀ D.  
= *‡*"homeroides" Draudt, 1931  
Entomol. Rdsch. 48(9): 103.  
**Original Combination:** *Papilio garamas* ab. *homeroides* ♀ ab. nov.  
**Type Locality:** "Hauptstadt Mexiko" [D. F., Mexico]  
**Types:** "Holotype" possibly in MTD (Draudt collection).  
= *‡*"splendida" Beutelspacher, 1976  
Revta Soc. Méx. Lepid. 2(2): 65, fig. 5 ♂ D, front cover ♂ D.  
**Original Combination:** *Papilio garamas* forma *splendida*  
**Type Locality:** "Atlixco, Pue....Izúcar de Matamoros, Pue." [Puebla, Mexico]  
**Types:** "Syntypes" in Velázquez and de la Maza collections.  
= *‡*"ampliata" Beutelspacher, 1976  
Revta Soc. Méx. Lepid. 2(2): 65, fig. 6 ♂ D ("holotype").  
**Original Combination:** *Papilio garamas* forma *ampliata*

- Type Locality:** "Zimapan, Hgo." [Hidalgo, Mexico]  
**Types:** "Holotype" in Velázquez collection.  
 =  $\S$ "diaz" Beutelspacher, 1976  
 Revta. Soc. Méx. Lepid. 2(2): 65, fig. 7  $\sigma$  D ("holotype").  
**Original Combination:** *Papilio garamas* ab. *diaz*  
**Type Locality:** "Tepoztlán, Mor." [Morelos, Mexico]  
**Types:** "Holotype" in Velázquez collection.
- a. ***Papilio garamas abderus*** Höpffer, 1856  
 Neue Schmett.: 1, no. 1, pl. 1, figs. 1  $\sigma$  D, 2  $\sigma$  V.  
**Original Combination:** *Papilio Abderus*  
**Type Locality:** "Mexiko"  
**Types:** Type(s) may be in ZMHB.  
 Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 7, pl. 1, fig. 1.  
 =  $\S$ "amerias" (Rothschild & Jordan, 1906)  
 Novit. Zool. 13(3): 646, no. 117ab'.  
**Original Combination:** [*Papilio garamas abderus*]  $\S$  f. *amerias*  
**Type Locality:** "Eastern Mexico: Vera Cruz"; lectotype from "Orizaba, Veracruz, Mexico."  
**Types:** "Lectotype" in BMNH, designated by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 95, fig. I  $\S$  D.
322. ***Papilio victorinus*** E. Doubleday, 1844  
 a. ***Papilio victorinus victorinus*** E. Doubleday, 1844  
 Ann. Mag. Nat. Hist. (1)14(93): 418; figured by G. Gray [1853], Cat. Lepid. Ins. Brit. Mus.: 35, no. 69, pl. 6, fig. 3  $\S$  D&V.  
**Original Combination:** *P[apilio]. Victorinus*  
**Type Locality:** "west coast of America" in error.  
**Types:** Holotype in BMNH.  
 Recorded from Texas by Adams (1984), J. Lepid. Soc. 37(4): 318.  
 = *helleri* C. Felder & R. Felder, [1865]  
 Reise Novara Zool. (1): 91-92, no. 70, pl. 13, figs. c  $\sigma$  D, d  $\sigma$  V.  
**Original Combination:** *Papilio Helleri*  
**Type Locality:** "Mexico"  
**Types:** Holotype in BMNH; figured by Tyler *et al.* (1994), Swallowtail Butts. Am.: pl. 98, fig. F  $\S$  D.  
 This taxon was listed without a description or indication by C. Felder and R. Felder (1864), Verh. zool.-bot Ges. Wien 14: 313, no. 336; a *nomen nudum*.  
 = *amphissus* Höpffer, 1866  
 Stettiner Entomol. Ztg. 27(1-3): 27-28, no. 8.  
**Original Combination:** [*Papilio*] *Amphissus*  
**Type Locality:** "Mexico"  
**Types:** Type(s) may be in ZMHB.  
 =  $\S$ "eritromaculata" Beutelspacher, 1976  
 Revta. Soc. Méx. Lepid. 2(2): 65.  
**Original Combination:** *Papilio victorinus* form fem. *eritromaculata*  
**Type Locality:** "Cerro El Vigía, Santiago Tuxtla, Ver....Chiltepec, Oax." [Mexico]  
**Types:** "Syntypes" in UNAM and de la Maza collection.
323. ***Papilio pilumnus*** Boisduval, 1836  
 Spec. gén. Lépid. 1: 340-341, no. 181.  
**Original Combination:** *Papilio pilumnus*  
**Type Locality:** "Mexique"  
**Types:** Holotype probably in BMNH or MNHP.
324. ***Papilio troilus*** Linnaeus, 1758  
 a. ***Papilio troilus troilus*** Linnaeus, 1758  
 Syst. Nat. (ed. 10) 1: 459, no. 5.  
**Original Combination:** *P[apilio]. E[ques Trojanus]. Troilus*  
**Type Locality:** "in Indiis" in error; suggested to be "lower Delaware River" by F. Brown (1968), J. Lepid. Soc. 22(2): 81; neotype from "Charleston Co., SC, visc. [*sic.*] Middleton Place Plantation." [South Carolina]  
**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 388-389; neotype in MGCL, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(4): 5, fig. 5  $\sigma$  D.  
 =  $\S$ *illioneus* J. E. Smith, 1797  
 In: Smith and Abbot, Ins. Georgia 1: 3-4, pl. 2, figs.  $\sigma$  D,  $\sigma$  V,  $\S$  D, larvae, pupa.  
**Original Combination:** *Papilio Illioneus*  
**Type Locality:** "Georgia" implied from the title of the work; neotype from "River Road, Burke County, GA."  
**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. Neotype in MGCL, designated by Gatrell (2000), Tax. Rep. Int. Lepid. Surv. 2(4): 3-4, fig. 4  $\sigma$  D.  
 Preoccupied by *Papilio illioneus* Cramer, 1775, Uitl. Kapellen 1(5): 81.  
 = *radiatus* Strecker, 1900  
 Lepid. Rhop. Het. (suppl. 3): 17.  
**Original Combination:** *Papilio troilus* var. *radiatus*  
**Type Locality:** "Washington, D.C.; Allegheny Co., Pennsylvania"  
**Types:** Syntypes in FMNH.

- = ‡"texanus" Ehrmann, 1900  
Can. Entomol. 32(11): 348.  
**Original Combination:** *Papilio troilus*, Var. *Texanus* ♂, nov. var.  
**Type Locality:** "Houston, Texas"; suggested to be "Florida" by Tyler *et al.* (1994), Swallowtail Butts. Am.: 306, pl. 93 legend.  
**Types:** "Holotype" in CMNH.  
The text clearly indicates that this taxon was described as an individual variant.
- = ‡*anethi* Fabricius, 1938  
*In:* Bryk, Syst. Glossat.: 21, no. 11; cited *Papilio troilus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 459, no. 5.  
**Original Combination:** *P[apilio]. T[rojanus]. Anethi*  
Proposed as a replacement name for *Papilio troilus* Linnaeus, 1758, based on a foodplant name; a junior objective synonym of *Papilio troilus*.
- = ‡"flava" Dufrane, 1946  
Bull. Annl. Soc. Entomol. Belg. 82(5/6): 115.  
**Original Combination:** *P[apilio]. t[roilus]. troilus* ab. *flava*  
**Type Locality:** "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]  
**Types:** "Holotype" may be in MRAC.
- = ‡"addenda" Dufrane, 1946  
Bull. Annl. Soc. Entomol. Belg. 82(5/6): 115.  
**Original Combination:** [*Papilio troilus troilus*] ab. *addenda*  
**Type Locality:** "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]  
**Types:** "Holotype" may be in MRAC.
- = ‡"obliterata" Dufrane, 1946  
Bull. Annl. Soc. Entomol. Belg. 82(5/6): 116.  
**Original Combination:** [*Papilio troilus troilus*] ab. *obliterata*  
**Type Locality:** "E. U. A., sans localit   pr  cise"  
**Types:** "Holotype" may be in MRAC.
- = ‡"berioi" Dufrane, 1946  
Bull. Annl. Soc. Entomol. Belg. 82(5/6): 115.  
**Original Combination:** [*Papilio troilus troilus*] ab. *berioi*  
**Type Locality:** "Pocono Monta, Pa., E. U. A." [Pocono Mountains, NE Pennsylvania]  
**Types:** "Holotype" may be in MRAC.
- b. ***Papilio troilus fakahatcheensis*** (Gatrell, 2000)  
Tax. Rep. Int. Lepid. Surv. 2(4): 10-11, figs. 8 ♂ D (holotype), 10 ♂ V, 11 ♂ D.  
**Original Combination:** *Pterourus troilus fakahatcheensis*  
**Type Locality:** "Florida: Collier County, visc. [sic] Copeland"  
**Types:** Holotype in MGCL.
- 325. ***Papilio palamedes*** Drury, 1773
  - a. ***Papilio palamedes palamedes*** Drury, 1773  
Ill. Nat. Hist. 1: 37-38, pl. 19, figs. 1 ♂ D, 2 ♂ V (1770); 2: index (1773, name given).  
**Original Combination:** *Pap[ilio]. Equ[es]. Ach[ivus]. Palamedes*  
**Type Locality:** "Carolina"  
**Types:** Type(s) probably lost or unidentifiable.  
= *chalcas* Fabricius, 1775  
Syst. Entomol.: 453, no. 44.  
**Original Combination:** *P[apilio]. E[ques]. A[chivus]. Chalcas*  
**Type Locality:** "America. Mus. D. Hunter"  
**Types:** Syntypes in HMUG.  
Fabricius (1793), Entomol. Syst. 3(1): 31, no. 90, implied this synonymy.
  - b. ***Papilio palamedes leontis*** Rothschild & Jordan, 1906  
Novit. Zool. 13(3): 599, no. 86b.  
**Original Combination:** *Papilio palamedes leontis*  
**Type Locality:** "Monterrey, Mexico" [Nuevo Le  n]  
**Types:** Holotype in BMNH.  
Recorded from southern Texas by H. Freeman (1951) Field & Lab. 19(1): 32.

### Family PIERIDAE Swainson, 1820

Zool. Illustr. (1)1(3): pl. 11, unnumbered text. Type-genus: *Pieris* Schrank [1801], Fauna boica 2(1): 152, no. 1981; 160-170, nos. 1283-1296. I.C.Z.N. *Opinion* 278 placed *Pieris* on the *Official List of Generic Names in Zoology* as name no. 704. I.C.Z.N. *Direction* 112 gave Pieridae precedence over Coliadinae whenever their type genera are considered to be in the same family-group taxon. I.C.Z.N. *Opinion* 500 placed Pieridae on the *Official List of Family-Group Names in Zoology* as name no. 206, placed Pierides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 238, placed Pieridina Herrich-Sch  ffer, 1853, Lep. exot. Spec. nov.: 54, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 239, and placed Pierididae Reuter, 1896, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 240. The "Official List" must be corrected as the authorship for Pieridae is listed as Duponchel, [1835], *in:* Godart, Hist. Nat. L  pid. Fr. Suppl. 1(22): 381. Swainson's application of the name was much earlier. The higher-level arrangement of the family adopted herein follows Braby *et al.* (2006), Zool. J. Linn. Soc. 147(2): 239-275.



Subfamily **Dismorphiinae** Schatz, 1886

In: Staudinger and Schatz, Exot. Schmett. 2(2): 56, 57 (as "Dismorphiden"). Type-genus: *Dismorphia* Hübner, 1816, Verz. bekannt. Schmett. (1): 10.

Genus **Enantia** Hübner, [1819]

Verz. bekannt. Schmett. (7): 96. Type-species: *Papilio licinia* Cramer, 1777, Uitl. Kapellen 2(13): 90, pl. 153, figs. E, F; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 162, no. 376. See Llorente (1984), Folia Entomol. Méx. 58: 3-206, for a revision of the genus.

= *Licina* Swainson, 1820

Zool. Illustr. (1)1(3): pl. 15, unnumbered text. Type-species: *Papilio melite* Linnaeus, 1763, in: Johansson, Cent. Ins. Rar.: 20, no. 56, by original designation.

326. **Enantia albania** (H. Bates, 1864)a. **Enantia albania albania** (H. Bates, 1864)

Entomol. Mon. Mag. 1(1): 6, no. 10.

**Original Combination:** *Leptalis albania*

**Type Locality:** "Guatemala. Motagua Valley"

**Types:** Holotype in BMNH.

= *mita* (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 340, no. 49.

**Original Combination:** *Leptalis mita*

**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]

**Types:** Syntype in CMNH.

= *immaculata* (Hoffmann, 1940)

An. Inst. Biol. Univ. Méx. 11(1): 277, fig. 2 ♂ D, ♀ D.

**Original Combination:** *Dismorphia* (*Enantia*) *amalia* forma *immaculata*

**Type Locality:** "Córdoba, Ver." [Veracruz, Mexico]

**Types:** "Holotype" in AMNH.

Subfamily **Coliadinae** Swainson, 1821

Zool. Illustr. (1)1(4): pl. 22, unnumbered text (as "Coliadae"). Type-genus: *Colias* [Fabricius], 1807, Mag. f. Insektenk. 6: 284, no. 24. I.C.Z.N. *Direction* 99 placed Coliadinae on the *Official List of Family-Group Names in Zoology* as name no. 227. The same *Direction* placed Coliana on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 265. I.C.Z.N. *Opinion* 146 placed *Colias* on the *Official List of Generic Names in Zoology* as name no. 572.

Genus **Kricogonia** Reakirt, [1864]

Proc. Entomol. Soc. Philad. 2[3]: 355. Type-species: *Colias lyside* Godart, 1819, in: Ency. méth. 9(Ins.)(1): 98, no. 30, by original designation.

327. **Kricogonia lyside** (Godart, 1819)

In: Ency. méth. 9(Ins.)(1): (87), 98, no. 30.

**Original Combination:** *Colias Lyside*

**Type Locality:** Not stated; defined as "Haiti" by N. Riley (1975), Field Guide Butts, W. Indies: 131.

**Types:** Lectotype in MNHP, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 154, no. 125.

N. Riley (1972), J. Lepid. Soc. 26(4): 228, determined that the historical use of the name *Papilio castalia* Fabricius, 1793; Ent. Syst. 3 (1): 188, for this species was based on misdeterminations. The original description of *castalia* referred to the figure of *Glutophrissa drusilla* in Jones' Icones.

= *terissa* (Lucas, 1852)

Revue Mag. Zool. (2)4(9): 429.

**Original Combination:** *Rhodocera Terissa*

**Type Locality:** "Saint-Domingue et la Jamaïque"

**Types:** Syntypes in MNHP.

= *terissa* (Boisduval, 1870)

Consid. Lépid. Guat.: 10.

**Original Combination:** [*Rhodocera Lyside*] *Terrissa*

**Type Locality:** "Mexique...Guatemala"

**Types:** Type(s) should be in MNHP or BMNH.

Preoccupied by *Rhodocera terissa* Lucas, 1852, Revue Mag. Zool. (2)4(9): 429.

= *fantasia* Butler, 1871

Trans. Entomol. Soc. Lond. (4)1871[19](2): 170, pl. 7, fig. 6 ♀ D.

**Original Combination:** *Kricogonia Fantasia*

**Type Locality:** "Nicaragua"

**Types:** Syntype in BMNH.

- = *lanice* Lintner, [1885]  
Papilio 4(7/8): 138-130, no. 11.  
**Original Combination:** *Kricogonia Lanice*  
**Type Locality:** "Brownsville, Texas...Hidalgo...Lomita Ranch" implied from the introduction to the paper. [Cameron and Hidalgo counties]  
**Types:** Syntype (#5861) in NYSM and ANSP.  
This name was listed without a description or indication by W. H. Edwards (1884), Trans. Am. Entomol. Soc. 11(3/4): 262, no. 60; a *nomen nudum*.
- = *unicolor* Godman & Salvin, 1889  
Biol. centr.-amer., Lepid. Rhop. 2(79): 151, no. 2.  
**Original Combination:** *Kricogonia unicolor*  
**Type Locality:** "Guatemala, San Gerónimo...Haiti; Jamaica"  
**Types:** Syntypes in BMNH.
- = *xanthophila* Röber, 1909  
*In:* Seitz, Grossschmett. Erde 5(29): 89; (41) pl. 26d, fig. [4] ♀ D.  
**Original Combination:** [*Kricogonia lyside*] *xanthophila* form nov.  
**Type Locality:** "Guatemala"  
**Types:** Lectotype in MTD, designated by Lamas (1995), Shilap Revta. Lepid. 23(91): 344.
- = *occidentalis* S. Torre, 1988  
Revta. Biol. (La Habana) 2(2): 57.  
**Original Combination:** *Kricogonia lyside occidentalis*  
**Type Locality:** "Varadero y en otras regiones de la parte occidental de Cuba"  
**Types:** Syntypes in IZAC, AMNH and ANSP.  
‡"anorbus" Scott, 1981  
Papilio (n.s.) 1: 3.  
**Original Combination:** *Kricogonia lyside* female form *anorbus*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Nathalis* Boisduval, 1836

Spec. gén. Lépid. 1: 589. Type-species: *Nathalis iole* Boisduval, 1836, Spec. gén. Lépid. 1: 589, no. 9, by monotypy.

328. *Nathalis iole* Boisduval, 1836  
Spec. gén. Lépid. 1: 589-590, no. 1.  
**Original Combination:** *Nathalis iole*  
**Type Locality:** "Mexique"  
**Types:** Syntypes in MNHP.
- = *felicia* Poey, [1852]  
Mem. Hist. Nat. Cuba 1: pl. 18, figs. 18 ♂ V, 19 ♂ D, 20 ♀ D, 21 ♀ V [Oct 1852]; 443-444, no. 14 [Jun 1854].  
**Original Combination:** *Nathalis Felicia*  
**Type Locality:** "Habana...Cárdenas" [Cuba]  
**Types:** Type(s) probably in MNHC, a possible syntype in ZMHB.
  - = *irene* Fitch, 1857  
Trans. N. Y. State Agric. Soc. 16(1856): 485-486, no. 212.  
**Original Combination:** *Nathalis Irene*  
**Type Locality:** "valley of the Mississippi"; J. Barnes (1988), Bull. N. Y. St. Mus. (461): 112, no. 333, noted that Fitch's original specimen was labeled "Tullehasse, AR. [sic!]" [Tulahassee, Wagoner County, Oklahoma]  
**Types:** Holotype (#2717) either lost or destroyed; J. Barnes (1988), *ibid.*, determined that there are no extant specimens in the NYSM.
  - = *luteolus* Reakirt, [1864]  
Proc. Entomol. Soc. Philad. 2[3]: 350-351, no. 2.  
**Original Combination:** *N[athalis]. luteolus*  
**Type Locality:** "Honduras"  
**Types:** Syntype in FMNH.
  - = ‡"pallida" W. D. Field, 1936  
J. Entomol. & Zool. 28(2): 20.  
**Original Combination:** *Nathalis iole* tr. f. *pallida*  
**Type Locality:** "Lawrence, Kansas" [Douglas County]  
**Types:** "Holotype" in USNM.
  - = ‡"immaculata" W. D. Field, 1936  
J. Entomol. & Zool. 28(2): 20.  
**Original Combination:** *Nathalis iole* form *immaculata*  
**Type Locality:** "Lawrence, Kansas" [Douglas County]  
**Types:** "Holotype" in USNM.
  - = ‡"albida" Avinoff & Shoumatoff, 1941  
Ann. Carnegie Mus. 28(15): 309-310, pl. 36, figs. 1 ♂ D&V, 2 ♀ D.  
**Original Combination:** *Nathalis iole* ab. *albida*

- Type Locality:** "an isolated elevation of over 3,000 feet called Low River, or All Sides, in Trelawny" [Jamaica]  
**Types:** Types in CMNH.  
 = ♀ "viridis" Whittaker & D. Stallings, 1944  
 Entomol. News 55(4): 92.  
**Original Combination:** *Nathalis iole* f. *hiem. viridis*  
**Type Locality:** "Caldwell, Kansas" [Sumner County]  
**Types:** "Holotype" in USNM.  
 = ♀ "alayoi" S. Torre, 1951  
 Mem. Soc. Cubana Hist. Nat. 20(2): 89, pl. 44, fig. 2 ♂ D (holotype).  
**Original Combination:** [*Nathalis iole*] [form] *alayoi*  
**Type Locality:** "500m del Castillo Peñas Altas, Playa de Bellamar, Matanzas" indicated in the legend to the plate. [Cuba]  
**Types:** "Holotype" (#2767) in IZAC.

#### Genus *Eurema* Hübner, [1819]

Verz. bekannt. Schmett. (7): 96. Type-species: *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(23): 144, pl. 273, fig. A; 3(24): 174 (index) (= *Pieris दौरα* Godart, 1819, in: Ency. méth. 9(Ins.)(1): (109), 137, no. 59; homonym), by designation of Butler (1870), Cist. Entomol. 1(3): 35.

- = ♀ *Heurema* Agassiz, 1846  
 Nomencl. zool. (4to ed.)(12)(index univ.): 181. An unjustified emendation of *Eurema* Hübner, [1819].  
 = *Lucidia* Lacordaire, 1833  
 Anns. Soc. Entomol. Fr. [1]2: 387. Type-species: *Papilio albula* Cramer, 1775, Uitl. Kapellen 1(3): 43, pl. 27, fig. E; (8): 151 (index), by monotypy.  
 = *Sphaenogona* Butler, 1870  
 Cist. Entomol. 1(3): 35, no. 15; 44, no. 15. Type-species: *Terias bogotana* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 84, no. 41 (= *Terias mexicana* Boisduval, 1836, Spec. gén. Lépid. 1: 655, pl. 19 [=3C], fig. 1; subspecies), by designation of W. F. Kirby (1896), in: Allen, Nat. Libr. Lepid. 2: 230.

#### 329. *Eurema दौरα* (Godart, 1819)

- a. *Eurema दौरα palmira* (Poey, [1852])  
 Mem. Hist. Nat. Cuba 1: 198, no. 14 (Oct 1852); pl. 24, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D (May 1853).  
**Original Combination:** [*Terias*]. *Palmira*  
**Type locality:** "Cuba" implied from the title of the paper.  
**Types:** Syntype (#7801) in ANSP.  
 Smith *et al.* (1982), Bull. Allyn Mus. (70): 1-8, discussed the presence of this subspecies in Florida and concluded that all populations in Florida are best considered *E. d. दौरα*; see Calhoun and Anderson (1991), J. Lepid. Soc. 45(1): 58, for notes on the occurrence of this taxon in southern Florida.  
 = *ebriola* (Poey, [1853])  
 Mem. Hist. Nat. Cuba 1: 250, no. 9, pl. 24, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D, 10 ♀ V, 11 ♀ V, 12 ♀ D, 13 ♀ V.  
**Original Combination:** *Terias Ebriola*  
**Type Locality:** "Cárdenas...Habana" [Cuba]  
**Types:** Syntypes (#7769, 7802) in ANSP.  
 = *albina* (Poey, [1853])  
 Mem. Hist. Nat. Cuba 1: 251-252, no. 10, pl. 24, figs. 14 ♂ D, 15 ♂ V, 16 ♀ D.  
**Original Combination:** *Terias Albina*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Syntype (#7803) in ANSP.  
 = ♀ *cubana* Herrich-Schäffer, 1865  
 Corresp-Bl. zool.-min. Ver. Regensb. 18(11/12): 166, no. 6.  
**Original Combination:** [*Terias*] *cubana*  
 Proposed as a replacement name for *Terias albina* Poey [1853], erroneously thought preoccupied.  
 b. *Eurema दौरα दौरα* (Godart, 1819)  
 In: Ency. méth. 9(Ins.)(1): (109), 137, no. 59; cited *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(24): pl. 273, fig. A, and Herbst (1792), in: Jablonsky, Natursyst. Ins., Schmett. 5: pl. 117, fig. 7.  
**Original Combination:** *Pieris दौरα*  
 Proposed to replace *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(23): 144, pl. 273, fig. A, preoccupied, with the same data (Code Article 60.3). Klots (1929), Entomol. Am. (n.s.) 9(3): 125, made a first reviser choice of *dauer* over *demoditas*, Hemming (1967), Bull. Brit. Mus. (Nat. Hist.) Entomol. Suppl. 9: 182, concurred.  
 = ♀ *delia* (Cramer, 1780)  
 Uitl. Kapellen 3(23): 144, pl. 273, fig. A ♂ D; 3(24): 174 (index).  
**Original Combination:** *Pap[ilio]. Dan[aus]. Delia*  
**Type Locality:** "Virginiën" "Virginie"  
**Types:** Syntype (#665101) in BMNH; figured by Chainey (2005), Zool. J. Linn. Soc. 145(3): fig. 29 ♂ D.  
 Preoccupied by *Papilio delia* [Schiffermüller], [1775], Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 179.  
 = ♀ *demoditas* Hübner, [1819]



Verz. bekannt. Schmett. (7): 96, no. 1016; cited *Papilio delia* Cramer, 1780, Uitl. Kapellen 3(24): pl. 273, fig. A.

**Original Combination:** *Eurema Demoditas*

Proposed to replace *Papilio delia* Cramer, 1780, preoccupied; a junior objective synonym of *Pieris दौरα* Godart, 1819, by first reviser choice.

= *jucunda* (Boisduval & Le Conte, [1830])

Hist. Lépid. Amér. sept. (6): 52-53 [May 1830]; (7): pl. 19, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D [Jun 1830].

**Original Combination:** *X[anthidia] Jucunda*

**Type Locality:** “dans l’Etat de New-York, dans Virginie, la Louisiane, etc.”; “Georgia” implied from John Abbot’s drawing.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.

= *lemnica* (C. Felder & R. Felder, 1865)

Reise Novara (2): 205, no. 213.

**Original Combination:** *Terias Lemnica*

**Type Locality:** “Brasilia Meridional: Bahia” in error. [Brazil]

**Types:** Syntype in BMNH.

= ♀ “fusca” L. Harris, 1931

Trans. Georgia Nat. Club 1(1): 11, pl. (“holotype”); figured by L. Harris (1972), Butts. Georgia: pl. 3, fig. 5 ♀ D.

**Original Combination:** *Eurema jucunda* ab. *fusca*

**Type Locality:** “Morningside area, Atlanta, Georgia” [Fulton County]

**Types:** “Holotype” in EUM.

= ♀ “delioides” Haskin, 1933

Entomol. News 44(5): 121.

**Original Combination:** *Eurema demoditas*, form *delioides*

**Type Locality:** “Auburndale, Florida” [Polk County]

**Types:** “Types” in USNM.

♀ “alba” Scott, 1986

Butts. N. Am.: 207, no. 59.

**Original Combination:** [*Eurema दौरα* ♀] form *alba*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

♀ “rosa” Scott, 1986

Butts. N. Am.: 207, no. 59.

**Original Combination:** [*Eurema दौरα*] winter form *rosa*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

c. *Eurema दौरα eugenia* (Wallengren, 1860)

Wien. Entomol. Montaschr. 4(2): 33-34, no. 2.

**Original Combination:** *Terias eugenia*

**Type Locality:** “Insula St. Joseph” [Isla San José, Archipiélago de las Perlas, Panama]

**Types:** Syntype in NHRS.

= *solana* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. [18](3): 240, no. 6.

**Original Combination:** *Terias solana*

**Type Locality:** “Mexico (near Vera Cruz)” [Veracruz]

**Types:** Syntype in FMNH.

= *persistens* (Butler & H. Druce, 1872)

Cist. Entomol. 1(5): 110.

**Original Combination:** *T[erias]. Persistens*

**Type Locality:** “Cartago, Costa Rica” implied from the title and introduction to the paper.

**Types:** Syntypes in BMNH.

= ♀ “pallidula” Klots, 1929

Entomol. Am. (n.s.) 9(3): 125, pl. 1, fig. 8 ♀ D (“holotype”).

**Original Combination:** [*Eurema jucunda*] f. ♀ *pallidula*

**Type Locality:** “Barrios, Guatemala”

**Types:** “Holotype” in AMNH.

d. *Eurema दौरα sidonia* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 465-466, no. 2.

**Original Combination:** *Terias Sidonia*

**Type Locality:** “Campeche” [Mexico]

**Types:** Syntypes in BMNH and NHMW.

= *cepio* (Godman & Salvin, 1889)

Biol. centr.-amer., Lepid. Rhop. 2(80): 169, no. 18; 3(80): pl. 64, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Terias Cepio*

**Type Locality:** “Mexico, Mazatlan...Presidio...Acapulco...Tepetlapa, Cuernavaca...Patzcuaro...Puebla, Orizaba...Cordova...Atoyac”; figured specimens from “Tepetlapa, in the State of Guerrero, at an altitude of 3000 feet.”

**Types:** Syntypes in BMNH.

330. *Eurema boisduvaliana* (C. Felder & R. Felder, 1865)

Reise Novara (2): 200, under no. 203.

**Original Combination:** *T[erias]. Boisduvaliana*

**Type Locality:** "Mexico"

**Types:** Holotype should be in MNHP or BMNH.

Proposed for the ♂ of *Terias mexicana* Boisduval, 1836, Spec. gén. Lépid. 1: 655.

Lamas (2004d), Atl. Neotrop. Lepid. Chcklst. Part 4A: 106, treated *boisduvaliana* as a subspecies of *Eurema arbela* Geyer, 1832, in: Hübner, Zutr. Samml. exot. Schmett. 4: pl [111], figs. 615 ♀ D, 616 ♀ V [1826]; (text): 14, no. 321 (1832, name given). This possibility remains to be thoroughly investigated.

= *ingrata* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 465, no. 1.

**Original Combination:** *Terias ingrata*

**Type Locality:** "Potrero" [Veracruz, Mexico]

**Types:** Syntypes in NMW and BMNH.

‡"rosa" Scott, 1986

Butts. N. Am.: 207, no. 57.

**Original Combination:** [*Eurema boisduvaliana*] winter form *rosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

331. *Eurema mexicana* (Boisduval, 1836)

a. *Eurema mexicana mexicana* (Boisduval, 1836)

Spec. gén. Lépid. 1: 655, no. 3, pl. 19 [= 3C], fig. 1 ♀ D.

**Original Combination:** *Terias Mexicana*

**Type Locality:** "Mexique"

**Types:** Type(s) should be in MNHP or BMNH.

Boisduval described *mexicana* from a mixed series; the name was restricted to Boisduval's ♀ by C. Felder and R. Felder (1865), Reise Novara (2): 200.

= *damaris* (C. Felder & R. Felder, 1865)

Reise Novara (2): 198, no. 200.

**Original Combination:** *Terias Damaris*

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

= *depuiseti* (Boisduval, 1870)

Consid. Lépid. Guat.: 11-12.

**Original Combination:** *Terias Depuiseti*

**Type Locality:** "Honduras...Mexique"

**Types:** Syntype in USNM.

= *biedermanni* (Ehrmann, 1925)

Bull. Brooklyn Entomol. Soc. 20(2): 84.

**Original Combination:** *Eurema biedermanni*

**Type Locality:** "Palmerlee, Arizona" [Cochise County]

**Types:** Holotype in CMNH; figured by Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 6 ♀ D.

= ‡"recta" Klots, 1929

Entomol. Am. (n.s.) 9(3): 135, pl. 3, fig. 61 ♂ D ("holotype").

**Original Combination:** *Eurema mexicana* ab. *recta*

**Type Locality:** "Texas"

**Types:** "Holotype" in AMNH.

= ‡"rosa" Whittaker & D. Stallings, 1944

Entomol. News 55(4): 87.

**Original Combination:** *Eurema mexicana* f. heim. *rosa*

**Type Locality:** "Caldwell, Kansas" [Sumner County]

**Types:** "Holotype" in USNM.

\*332. *Eurema salome* (C. Felder & R. Felder, 1861)

Wien. entomol. Monatschr. 5(3): 84, no. 42.

**Original Combination:** *Terias Salome*

**Type Locality:** "Ecuador"

**Types:** Type(s) should be in BMNH (Felder collection).

= ‡"lurida" (d'Almeida, 1928)

Annls. Soc. ent. Fr. 97(3/4): 373-374.

**Original Combination:** *Terias arbela* aberr. *arbela lurida*

**Type Locality:** "Tojújú, Pérou" [Peru]

**Types:** Holotype in UFPC.

a. *Eurema salome jamapa* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. [18](3): 239, no. 5.

**Original Combination:** *Terias jamapa*

**Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]

**Types:** Type(s) might be in CMNH; noted not to be in FMNH by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 89.

\*333. *Eurema albula* (Cramer, 1775)

Uitl. Kapellen 1(3): 43, pl. 27, fig. E ♀ D; (8): 151 (index).

**Original Combination:** [*Pap[ilio]. Dan[aus] Cand[idus] Albula*

**Type Locality:** “Surinamsch” “Suriname”; “neotype” from “Crique Spariwine, mount St. Hermínio, Guiana Francesca.” [French Guiana]

**Types:** Type(s) probably lost; d’Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated “neotypes”; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 30 ♂ D&V, designated one of these as the neotype (#2020) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

Recorded from Texas by Chuah and Cushing (1995), Tropical Lepid. 6(1): 43, figs. 1, 1a.

= *†cassiae* (Sepp, [1843])

Surinaam. Vlinders [2] (14): pl. 56.

**Original Combination:** *Papilio Cassiae*

**Type Locality:** “Surinam” implied from the title of the work.

**Types:** Type(s) are lost.

Preoccupied by *Papilio cassiae* Linnaeus, 1758, Syst. Nat. (ed. 10): 471, no. 82.

= *clara* (H. Bates, 1861)

J. Entomol. 1(4): 243, no. 12.

**Original Combination:** *T[er]ias*. *clara*

**Type Locality:** “Amazon Valley” implied from the title of the paper. [Brazil]

**Types:** Syntypes in BMNH.

= *tapeina* (H. Bates, 1861)

J. Entomol. 1(4): 244, no. 14.

**Original Combination:** *T[er]ias*. *Tapeina*

**Type Locality:** “Pará” [Brazil]

**Types:** Syntypes in BMNH.

= *melacheila* (Möschler, 1877)

Verh. zool.-bot. Ges. Wien 26: 297.

**Original Combination:** [*Terias*] *Melacheila*

**Type Locality:** “Surinam” implied from the title of the paper.

**Types:** Type(s) probably in ZMHB.

a. *Eurema albula celata* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 466, no. 4.

**Original combination:** *Terias celata*

**Type Locality:** “Potrero” [Veracruz, Mexico]

**Types:** Syntypes in NMW.

= *leucilla* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 466, no. 5.

**Original Combination:** *Terias Leucilla*

**Type Locality:** “Potrero” [Veracruz, Mexico]

**Types:** Syntypes in NMW.

#### Genus *Pyrisitia* Butler, 1870

Cist. Entomol. 1(3): 35, no. 17; 44, no. 17. Type-species: *Papilio proterpia* Fabricius, 1775, Syst. Entomol.: 478, no. 152, by original designation.

334. *Pyrisitia messalina* (Fabricius, 1787)

Mantissa Ins. 2: 22, no. 236.

**Original Combination:** *P[apilio]*. *D[anaus]*. *C[andidus]*. *Messalina*

**Type Locality:** “India. Dom Boeber”; defined as “Cuba” by Klots (1929), Entomol. Am. (n.s.) 9(3): 131.

**Types:** Type(s) apparently lost.

Kimball (1965), Arthrop. Florida, vol. 1, Lepid. Florida: 35-36, and Calhoun (1997), Holarct. Lepid. 4(2): 44, noted that the occurrence of this species in Florida is questionable.

= *gnathene* (Boisduval, 1836)

Spec. gén. Lépid. 1: 680, no. 46.

**Original Combination:** *Terias Gnathene*

**Type Locality:** “Yucatan, Mexique” apparently in error.

**Types:** Syntype(s) in Roger collection, probably lost.

= *bulaea* (Boisduval, 1836)

Spec. gén. Lépid. 1: 680-681, no. 47.

**Original Combination:** *Terias Bulaea*

**Type Locality:** “Sénégal” in error; suggested to be “American” by Poey [1853], Mem. Hist. Nat. Cuba 1: 153-154, and Klots (1929), Entomol. Am. (n.s.) 9: 131, who placed this name in synonymy.

**Types:** Syntype in BMNH.

= *iradia* (Poey, [1852])

Mem. Hist. Nat. Cuba 1: pl. 18, figs. 14 ♂ V, 15 ♂ D, 16 ♀ D, 17 ♀ V [Oct 1852]; 253 [May 1853].

**Original Combination:** *Terias Iradia*

**Type Locality:** “Cienfuegos...Zapata, y Sabana de Guamacaro” [Cuba]

**Types:** Syntype (#7803) in ANSP.

= *blakei* (Maynard, 1891)



Man. N. Am. Butts.: 216, appendix, no. 93\*.

**Original Combination:** *Terias Blakei*

**Type Locality:** "on all of the Bahamas which I visited...Sandford, Florida" [Seminole County]

**Types:** Syntype (#16606) in MCZ.

335. ***Pyrisitia proterpia*** (Fabricius, 1775)

Syst. Entomol.: 478, no. 152.

**Original Combination:** *P[apilio]. D[anaus]. C[andidi]. Proterpia*

**Type Locality:** "Iamaica. Mus. D. Hunter"

**Types:** Syntypes in HMUG.

= *gundlachia* (Poey, [1853])

Mem. Hist. Nat. Cuba 1: 246, no. 4, pl. 24, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D.

**Original Combination:** *Terias Gundlachia*

**Type Locality:** "isla de Cuba...Cárdenas"

**Types:** Syntype (#7770) in ANSP.

= *longicauda* (H. Bates, 1864)

Entomol. Mon. Mag. 1(2): 32, no. 13.

**Original Combination:** *Terias Longicauda*

**Type Locality:** "Guatemala, interior"

**Types:** Syntype in BMNH.

= *watsonia* (Klots, 1923)

Entomol. News 34(10): 301.

**Original Combination:** *Eurema proterpia watsonia*

**Type Locality:** "Rio Bamba, Ecuador, South America"

**Types:** Holotype in AMNH.

= *morleyi* (Coxey, 1932)

Entomol. News 43(2): 33.

**Original Combination:** *Eurema gundlachia* race *morleyi*

**Type Locality:** "Higra, 4000 feet elevation, Ecuador"

**Types:** Holotype (#7752) in ANSP.

= ♀ "imitatrix" (d'Almeida, 1932)

Bull. Soc. Entomol. Fr. 37(3): 44.

**Original Combination:** *Terias proterpia* ab. ♀ *imitatrix*

**Type Locality:** "Guaicoromo...Colombie"

**Types:** "Lectotype" in UFPC, designated by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 325, fig. 3 ♀ D&V.

♂ "atzin" (Arias, 1968)

Exp. cient. españ. siglo XVIII, Exp. Bot. Nueva España: 394.

**Original Combination:** *Tlotzin Atzin*

**Types:** Types probably never designated.

Proposed without a description or indication; a *nomen nudum*.

336. ***Pyrisitia lisa*** (Boisduval & Le Conte, [1830])

a. ***Pyrisitia lisa lisa*** (Boisduval & Le Conte, [1830])

Hist. Lépid. Amér. sept. (6): 53-55 [May 1830]; (7): pl. 19, figs. 4 ♂ D, 5 ♂ V, 6 larva, 7 pupa [Jun 1830].

**Original Combination:** *X[anthidia]. Lisa*

**Type Locality:** "dans les différentes parties des États-Unis"

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. A "type" is in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such "types" from the Boisduval collection.

= *clappii* (Maynard, 1891)

Man. N. Am. Butts.: 216, appendix, no. 90a.

**Original Combination:** *Terias lisa clappii*

**Type Locality:** "Enterprise, Florida" [Volusia County]

**Types:** Syntype (#16607) in MCZ.

= ♀ "alba" (Strecker, 1878)

Butts. & Moths N. Am., Comp. Syn. Cat.: 85, no. 76a.

**Original Combination:** [*Terias Lisa*] ab. a. ♀ *Alba*

**Type Locality:** Not stated.

**Types:** "Type(s)", if they can be identified, may be in FMNH.

= ♀ "immaculata" (Whittaker & D. Stallings, 1944)

Entomol. News 55(4): 88.

**Original Combination:** *Eurema lisa* f. aest. *immaculata*

**Type Locality:** "Caldwell, Kansas" [Sumner County]

**Types:** "Holotype" in USNM.

b. ***Pyrisitia lisa centralis*** (Herrich-Schäffer, 1865)

Corresp-BL. zool.-min. Ver. Regensburg 18(11/12): 168, no. 12.

**Original Combination:** [*Terias*] *centralis*

**Type Locality:** "Guatemala"

**Types:** Location of type(s) not known.

337. **Pyrisitia nise** (Cramer, 1775)
- a. **Pyrisitia nise nise** (Cramer, 1775)  
 Uitl. Kapellen 1(2): 31, pl. 20, figs. K ♀ D, L ♀ V; 1(8): 154 (index) [1776].  
**Original Combination:** *Pap[ilio]. dan[aii]. Candidi Nise*  
**Type Locality:** "Jamaica" "Jamaïque"; "neotype" from "along the road near Millbank, Portland Parish, Jamaica, B. W. I."  
**Types:** Neotype in RMNH, designated by Klots and Heineman (1957), Proc. R. Entomol. Soc. Lond. (B)26(11/12): 212-213, pl. 1, fig. 1 ♂ D&V.  
 D'Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 22 ♂ D&V, designated one of these, from "River Maroni, Guiana Francesca," as the neotype (#1652) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3. The subspecific arrangement herein follows Smith *et al.* (1994), Butts. W. Ind. & Fla.: 150.  
 = *†neda* (Godart, 1819)  
*In:* Ency. méth. 9(Ins.) (1): (109), 135-136, no. 54; cited *Papilio nise* Cramer, 1775, Uitl. Kapellen 1(2): pl. 20, figs. K, L, and Herbst (1792), *in:* Jablonsky, Natursyst. Ins. 5: pl. 106, figs. 8, 9.  
**Original Combination:** *Pieris Neda*  
 Proposed to replace *Papilio nise* Cramer, 1775, erroneously thought to be preoccupied; a junior objective synonym of *nise*.
- = *larae* (Herrich-Schäffer, 1862)  
 Corresp.-Bl. zool.-min. Ver. Regensburg 16(6-8): 120.  
**Original Combination:** *Terias laeae*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Syntype (#7304) in ANSP.
- b. **Pyrisitia nise nelphe** (R. Felder, 1869)  
 Verh. zool.-bot. Ges. Wien 19: 466, no. 3.  
**Original Combination:** *Terias Nelphe*  
**Type Locality:** "Potrero" [Veracruz, Mexico]  
**Types:** Syntypes in NMW and BMNH.
- = *venustula* (Staudinger, 1875)  
 Verh. zool.-bot. Ges. Wien 25: 93, no. 3.  
**Original Combination:** *Terias (Terias) Venustula*  
**Type Locality:** "den unteren Regionen von Chiriqui" [Panama]  
**Types:** Syntypes in ZMHB.
- = *linda* (W. H. Edwards, 1884)  
 Papilio 4(3): 53.  
**Original Combination:** *Terias Linda*  
**Type Locality:** "Mexico, short distance from the boundary line of Arizona"; defined as "vicinity of Nogales, Sonora" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 49. [Mexico]  
**Types:** Lectotype in USNM, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 50, fig. 9 ♂ D&V.
- \*338. **Pyrisitia dina** (Poey, 1832)  
 Cent. Lépid. Cuba (2): [35-36], [no. 12], pl. [12], figs. [1] ♀ D, [2] ♀ V.  
**Original Combination:** *Terias Dina*  
**Type Locality:** "côte du Nord" [Cuba]  
**Types:** Syntype (#7800) in ANSP.
- = *citrina* (Poey, [1852])  
 Mem. Hist. Nat. Cuba 1: pl. 18, figs. 4 ♂ V, 5 ♂ D, 6 ♀ D, 7 ♀ V (Oct 1852); 247-248, no. 6 (May 1853).  
**Original Combination:** *T[erias]. Citrina*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Type(s) may be lost.
- a. **Pyrisitia dina helios** (M. Bates, 1934)  
 Occ. Pap. Boston Soc. Nat. Hist. 8: 133-134.  
**Original Combination:** *Eurema dina helios*  
**Type Locality:** "New Providence (Nassau)" [Bahamas]  
**Types:** Holotype (#19564) in MCZ.
- b. **Pyrisitia dina westwoodii** (Boisduval, 1836)  
 Spec. gén. Lépid. 1: 666-667, no. 22.  
**Original Combination:** *Terias Westwoodii*  
**Type Locality:** "Mexique"  
**Types:** Syntypes in MNHP and BMNH.
- = *calceolaria* (Butler & H. Druce, 1872)  
 Cist. Entomol. 1(5): 110.  
**Original Combination:** *T[erias]. Calceolaria*  
**Type Locality:** "Honduras"  
**Types:** Syntypes in BMNH.

Genus **Abaeis** Hübner, [1819]

Verz. bekannt. Schmett. (7): 97. Type-species: *Papilio nicippe* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index), by designation of Butler (1870), Cist. Entomol. 1(3): 35.

- = ‡*Xanthidia* Boisduval & Le Conte, [1830]  
Hist. Lépid. Amér. sept. (5): 48. Type-species: *Papilio nicippe* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 288, no. 1081. A junior objective synonym of *Abaeis* Hübner, [1819].
339. **Abaeis nicippe** (Cramer, 1779)  
Uitl. Kapellen 3(18): 31, pl. 210, figs. C, D; (24): 176 (index).  
**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Nicippe*  
**Type Locality:** "Virginiën" "Virginie"  
**Types:** Syntypes (#665378, 665379, possibly 665080) in BMNH. D'Almeida (1945), Arq. Zool. São Paulo 4(3): 90, designated "neotypes"; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 11 ♂ D&V, designated one of these, from "River Maroni, Guiana Francesca," as the neotype (#1652) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.
- = ‡"flava" (Strecker, 1878)  
Butts. & Moths N. Am., Comp. Syn. Cat. Lepid: 85, no. 68a.  
**Original Combination:** [*Terias Nicippe*] ab. a. ♂ ♀ *Flava*  
**Type Locality:** Not stated.  
**Types:** "Syntypes" in FMNH.
- = ‡"dammersi" (Gunder, 1930)  
Bull. South. Calif. Acad. Sci. 29(2): 52, no. 40, pl. 19 ♀ D ("holotype").  
**Original Combination:** *Eurema nicippe* tr. f. *dammersi*  
**Type Locality:** "San Bernardino, California" [San Bernardino County]  
**Types:** "Holotype" in AMNH.
- = ‡"callae" (W. D. Field, 1936)  
J. Entomol. & Zool. 28(2): 20.  
**Original Combination:** *Eurema nicippe* tr. f. *callae*  
**Type Locality:** "Donna, Texas" [Hidalgo County]  
**Types:** "Holotype" in USNM.
- = ‡"pallens" (Whittaker & D. Stallings, 1944)  
Entomol. News 55(4): 88.  
**Original Combination:** *Eurema nicippe* f. aest. *pallens*  
**Type Locality:** "Caldwell, Kansas" [Sumner County]  
**Types:** "Holotype" in USNM.  
‡"rosa" (Scott, 1986)  
Butts. N. Am.: 206, no. 55.  
**Original Combination:** [*Eurema nicippe* winter form] *rosa*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

#### Genus *Colias* [Fabricius], 1807

- In: Illiger, Mag. f. Insektenk. 6: 284, no. 24. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by designation of I.C.Z.N. *Opinion* 146.
- = ‡*Eurymus* Horsfield, [1829]  
Descr. Cat. Lepid. Ins. Mus. E. India Co. (2): 129, 134. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by original designation. Preoccupied by *Eurymus* Rafinesque, 1815, Analyse Nat.: 117, and a junior objective synonym of *Colias*.
- = *Scalidoneura* Butler, 1871  
Proc. Zool. Soc. Lond. 1871(1): 250-251. Type-species: *Scalidoneura hermina* Butler, 1871, Proc. Zool. Soc. Lond. 1871(1): 251, pl. 19, fig. 5, by original designation.
- = *Eriocolias* J. Watson, 1895  
Entomol. 28(6) [385]: 167. Type-species: *Papilio edusa* Fabricius, 1787, Mantissa Ins. 2: 23, no. 240, by original designation (= *Papilio croceus* Geoffroy (1875), in: Fourcroy, Entomol. Paris 2: 250, no. 48).
- = ‡*Coliastes* Hemming, 1931  
Entomol. 64(12) [823]: 273. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71, by original designation; a junior objective synonym of *Colias*.
- = *Mesocolias* Petersen, 1963  
J. Res. Lepid. 1(2): 144-145. Type-species: *Colias vauthierii* Guérin-Méneville, [1830], in: Duperrey, Voy. Coquille, 1 (Zool.) Atlas(18): pl. Ins. 15, fig. 2, by original designation.
- = *Protocolias* Petersen, 1963  
J. Res. Lepid. 1(2): 144-145. Type-species: *Colias imperialis* Butler, 1871, Proc. Zool. Soc. Lond. 1871(1): 250, pl. 19, fig. 2, by original designation (= *Colias ponteni* Wallengren, 1860, Wien. entomol. Monatschr. 4(2): 33, no. 1; synonym).
- = *Palaecolias* Berger, 1986  
Lambillionea 86(7/8, suppl.): 21-22, 32. Type-species: *Colias ponteni* Wallengren, 1860, Wien. Entomol. Montaschr. 4(2): 33, by original designation.
- = *Neocolias* Berger, 1986  
Lambillionea 86(7/8, suppl.): 21, 32. Type-species: *Papilio erate* Esper, 1805, Die Schmett. 1(suppl.) (2) (11): pl. 119 (cont. 74), fig. 3, by original designation.
- = *Eucolias* Berger, 1986



Lambillionea 86(7/8, suppl.): 22, 33. Type-species: *Papilio palaeno* Linnaeus, 1761, Fauna Svecica (ed. 2): 272, no. 1041, by original designation.

= *Similicolas* Berger, 1986

Lambillionea 86(7/8, suppl.): 23, 33. Type-species: *Papilio lesbia* Fabricius, 1775, Syst. Entomol.: 477, no. 149, by original designation.

= *Paracolas* Berger, 1986

Lambillionea 86(7/8, suppl.): 24, 34. Type-species: *Colias dimera* E. Doubleday, 1847, Gen. diurn. Lepid. (1)(7): 74, pl. 9, fig. 3, by original designation.

= *Asiocolas* Korb, 2005

Cat. Butts. ex USSR: 20. Type-species: *Colias christophi* Grum-Grshimailo, 1885, in: Romanov, Mém. Lépid. 2: 220, by original designation.

‡*Ganura* Zetterstedt, [1839]

Ins. Lappon. (5): col. 903. Type-species: *Papilio hyale* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 469, no. 71. This name was published in synonymy and is unavailable (Code Article 11.6).

### 340. *Colias philodice* Godart, 1819

#### a. *Colias philodice philodice* Godart, 1819

Ency. méth. 9(Ins.) (1): (87), 100-101, no. 35.

**Original Combination:** *Colias Philodice*

**Type Locality:** “dans l’Amérique septentrionale, particulièrement dans la Virginie”; defined as “Virginia” by Klots (1951), Field Guide Butts. N. Am.: 185.

**Types:** Location of type not known.

= *dorippe* Godart, 1819

Ency. méth. 9(Ins.) (1): (87), 101, no. 36; cited *Papilio palaeno* (*sensu* Cramer (1775), Uitl. Kapellen 1(2): pl. 14, figs. F, G).

**Original Combination:** *Colias Dorippe*

**Type Locality:** “du Cap de Bonne-Espérance” in error. [Cape Good Hope, South Africa]

**Types:** Type(s) may be lost.

= *anthyle* (Hübner, 1823)

Samml. exot. Schmett. 2: pl. [54], figs. 307 ♂ D, 308 ♂ V [1821]; (text): 21, no. 154 (1832, name given).

**Original Combination:** *Zerene Anthyle*

**Type Locality:** “Pennsylvanien” [Pennsylvania]

**Types:** Type(s) probably lost.

= *santes* Fitch, 1854

Trans. N. Y. State Agric. Soc. 13(1853): 378.

**Original Combination:** *Colias santes*

**Type Locality:** “New York”; J. Barnes (1988), Bull. New York St. Mus. (461): 112, no. 334, noted that the original specimen (#6680) was labeled “Salem, NY.” [Washington County, New York]

**Types:** Probably lost; J. Barnes (1988), *ibid.*, noted that there were no extant specimens in the NYSM.

= *tegea* Sievers, 1859

Etud. Entomol. (Motschulsky) 8: 146.

**Original Combination:** *Colias Tegea*

**Type Locality:** “des environs de New York”

**Types:** Location of type(s) not known.

= ‡*notatus* (Megerle, 1803)

Cat. Ins. Viennae Austriae 28 Novembris 1803, auctionis: [81], no. 436.

**Type Locality:** “Georgia”

**Original Combination:** [*Papilio*] *notatus*

**Types:** Probably none designated.

I.C.Z.N. *Opinion 1710* placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*. This name has at times been credited to A. Clark and L. Clark (1941), Proc. Entomol. Soc. Wash. 43(4): 83, no. 1; their mention of the name represents a *nomen nudum*.

= ‡“alba” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 82, no. 58a; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. Colias 2, fig. 6 ♀ D, pl. Colias III, figs. 5 ♀ D, 6 ♀ V.

**Original Combination:** [*Colias Philodice*] ab. a. ♀ *Alba*

**Type Locality:** Not stated.

**Types:** “Type(s)” may be in CMNH.

= ‡“nig” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 82, no. 58b; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. Colias 3, figs. 8 ♂ D, 9 ♂ V.

**Original Combination:** [*Colias Philodice*] ab. b. ♂ *Nig*

**Type Locality:** “near Palmyra, New York...Montreal, Canada”; “lectotype” from “Montreal.” [Quebec]

**Types:** The specimen from Montreal in FMNH is the sole remaining “syntype”; L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 220, note 281, designated this as “lectotype.”

= ‡“virida” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 82, no. 58c.

- Original Combination:** [*Colias Philodice*] ab. c. ♀ *Virida*  
**Type Locality:** "taken at the same time and place as the preceding [nig]" "near Montreal, Canada" [Quebec]  
**Types:** "Holotype" in FMNH.
- = ♀ "hybrida" Strecker, 1878  
 Butts. & Moths N. Am., Comp. Syn. Cat.: 82, no. 58d; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. *Colias* 3, fig. 1 ♂ D.  
**Original Combination:** [*Colias Philodice*] ab. d. ♀ *Hybrida*  
**Type Locality:** "Illinois, Georgia"; determined to be "Rock Island, Illinois" from Edwards' figure. [Rock Island County]  
**Types:** "Holotype" is the specimen figured by W. H. Edwards (1876), *ibid.*, possibly in CMNH.
- = ♀ "alba" Pilate, 1882  
 Papilio 2(5): 65.  
**Original Combination:** [*Colias*] *Philodice* ♀ var. *Alba*  
**Type Locality:** "Dayton, Ohio" implied from the title of the paper. [Montgomery County]  
**Types:** Location of "holotype" not known.
- = ♀ "maria" W. H. Edwards, 1885  
 Papilio 4(9-10): 171.  
**Original Combination:** *C[olias]*. [*philodice*] *maria*  
**Type Locality:** Not stated.  
**Types:** "Holotype" lost.  
 This name represents a cyanide-stained specimen, inadvertently described.
- = ♀ "nigridice" Scudder, 1889  
 Butts. E. U. S. & Can. 2(8): 1114; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. *Colias* 3, figs. 8 ♂ D, 9 ♂ V.  
**Original Combination:** *Eurymus phil[odice]*. [♂ form] *nigridice*  
**Type Locality:** "Palmyra, N. Y." [Wayne County, New York]  
**Types:** "Holotype" is specimen figured by W. H. Edwards (1876), *ibid.*, possibly in CMNH.
- = ♀ "miscidice" Scudder, 1889  
 Butts. E. U. S. & Can. 2(8): 1115.  
**Original Combination:** *E[urymus]*. *p[hilodice]*. [♀ form] *miscidice*  
**Type Locality:** "Lynn, Mass." [Essex County, Massachusetts]  
**Types:** "Holotype" in Sanborn collection, location not known.
- = ♀ "pallidice" Scudder, 1889  
 Butts. E. U. S. & Can. 2(8): 1115; 3(8): pl. 7, fig. 6 ♀ D ("holotype"); cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. *Colias* 2, fig. 6 ♀ D; pl. *Colias* III, figs. 5 ♀ D, 6 ♀ V.  
**Original Combination:** *E[urymus]*. *p[hilodice]*. [♀ form] *pallidice*  
**Type Locality:** "New England" implied from the title of the work.  
**Types:** Location of "syntypes" not known, may be at MCZ.
- = ♀ "suffusa" Cockerell, 1889  
 Entomol. 22(310): 55.  
**Original Combination:** *C[olias]*. *philodice* *suffusa*  
**Type Locality:** "Massachusetts"  
**Types:** "Type" figured by Maynard (1886), Butts. N. England: pl. vii, fig. 57c, may be based on a specimen in the MCZ.  
 The text clearly indicates that this taxon was described as an individual variant.
- = ♀ "alba" Ehrmann, 1890  
 Entomol. News 1(6): 93.  
**Original Combination:** *Colias philodice*, Ab. *alba*  
**Type Locality:** "Sarver Station, Butler County, Pa." [Pennsylvania]  
**Types:** Type either unrecognizable or lost.  
 Redescribed by Ehrmann (1890) in Entomol. News 1(8): 130.
- = ♀ "luteitincta" Wolcott, 1893  
 Can. Entomol. 25(4): 104, under no. 50.  
**Original Combination:** *Colias philodice*, var. *luteitincta*  
**Type Locality:** "Batavia, Ills....Grand Rapids" [Kane County, Illinois; Kent County, Michigan]  
**Types:** Type may be in USNM.  
 The text clearly indicates that this taxon was described as an individual variant.
- = ♀ "albinic" Skinner, 1898  
 Syn. Cat. N. Am. Rhop.: 68, no. 415; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. *Colias* 2, fig. 6 ♀ D.  
**Original Combination:** [*Colias Philodice*] var. *albinic*  
 It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 78), and is included herein for the sake of completeness.
- = ♀ "melanic" Skinner, 1898  
 Syn. Cat. N. Am. Rhop.: 69, no. 415; cited W. H. Edwards (1876), Butts. N. Am. 2(5): pl. *Colias* 3, figs. 8 ♂ D, 9 ♂ V.  
**Original Combination:** [*Colias Philodice*] var. *melanic*  
 (See comments above for "albinic").
- = ♀ "nigrina" Strecker, 1900  
 Lepid. Rhop. Het. (suppl. 3): 19.

- Original Combination:** *Colias philodice* ♂ form *nigrina*  
**Type Locality:** "Bethlehem, Pa...Montreal, Can...Orillia, Can." [Lehigh and Northampton counties, Pennsylvania; Quebec and Ontario]  
**Types:** "Holotype" in FMNH.
- = ♀ "alba" Röber, 1909  
*In:* Seitz, Grossschmett. Erde 5(29): 91.  
**Original Combination:** [*Colias philodice*] ab. *alba*  
**Type Locality:** Not stated; "lectotype" from "Philadelphia." [Philadelphia County, Pennsylvania]  
**Types:** "Lectotype" in ZMHB, designated by Lamas (1995), Shilap Revta. Lepid. 23(91): 344.
- = ♀ "nigrofasciata" Reiff, 1917  
*Lepidopterist* 1(3): 22-23, pl. 3 ♀ D.  
**Original Combination:** *Colias philodice* f[orm] *nigrofasciata*  
**Type Locality:** "Belchertown, Massachusetts" [Hampshire County]  
**Types:** "Holotype" in USNM.
- = ♀ "rothkei" Reiff, 1917  
*Lepidopterist* 1(11): 84, pl. 7 ♂ D ("holotype").  
**Original Combination:** *Colias philodice* ab. *rothkei*  
**Type Locality:** "Susquehanna Valley, Pa." [Pennsylvania]  
**Types:** "Holotype" in AMNH.
- = ♀ "plicaduta" Nakahara, 1926  
*Bull. Brooklyn Entomol. Soc.* 20(5): 222-223.  
**Original Combination:** *Colias philodice* f. *plicaduta*  
**Type Locality:** "Ithaca, N. Y." [Tompkins County, New York]  
**Types:** "Holotype" in USNM.
- = ♀ "inversata" Nakahara, 1926  
*Bull. Brooklyn Entomol. Soc.* 20(5): 223.  
**Original Combination:** *Colias philodice* ab. *inversata*  
**Type Locality:** "Midvale, Allegheny Co., Pa." [Pennsylvania]  
**Types:** "Holotype" in USNM.
- = ♀ "minor" F. Chermock, 1927  
*Bull. Brooklyn Entomol. Soc.* 22(2): 118.  
**Original Combination:** *Colias philodice* form *plicaduta* ab. *minor*  
**Type Locality:** "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]  
**Types:** "Holotype" in MGCL.
- = ♀ "ehrmanni" F. Chermock, 1927  
*Bull. Brooklyn Entomol. Soc.* 22(2): 118.  
**Original Combination:** *Colias philodice* from [*sic!*] *plicaduta* ab. *Ehrmanni*  
**Type Locality:** "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]  
**Types:** "Holotype" in MGCL.
- = ♀ "alba" F. Chermock, 1927  
*Bull. Brooklyn Entomol. Soc.* 22(2): 119.  
**Original Combination:** *Colias philodice* from [*sic!*] *plicaduta* var. *alba*  
**Type Locality:** "N. S. Pittsburgh, Pa." [Allegheny County, Pennsylvania]  
**Types:** "Holotype" in MGCL.
- = ♀ "albida" F. Chermock, 1928  
*Bull. Brooklyn Entomol. Soc.* 23(4): 173.  
**Original Combination:** *Colias philodice* f. *plicaduta* var. *albida*  
 Proposed as a replacement name for *alba* F. Chermock, 1927, but that name is infrasubspecific and therefore not subject to homonymy.
- = ♀ "raritus" (Gunder, 1928)  
*Can. Entomol.* 60(7): 163, pl. A, figs. 2 ♀ D, 2a ♀ V ("holotype").  
**Original Combination:** *Eurymus philodice* tr. f. *raritus*  
**Type Locality:** "Scranton, Pa." [Lackawanna County, Pennsylvania]  
**Types:** "Holotype" in AMNH.
- = ♀ "serrata" (F. Chermock, 1929)  
*Bull. Brooklyn Entomol. Soc.* 24(1): 21.  
**Original Combination:** *Eurymus philodice* var. *serrata*  
**Type Locality:** "Rossgrove, near Aspinwall, Pa." [Allegheny County, Pennsylvania]  
**Types:** "Holotype" in MGCL.
- = ♀ "minor" Dufrane, 1947  
*Bull. Annls. Soc. Entomol. Belg.* 83(1/2): 69.  
**Original Combination:** [*Colias philodice* f. *anthyale*] *minor*  
**Type Locality:** "Temple, Pa. E. U. A." [Berks County, Pennsylvania]  
**Types:** "Syntype" in IRSN.  
 Dufrane probably used the name *minor* as a qualifier for a small specimen.
- = ♀ "reducta" Dufrane, 1947  
*Bull. Annls. Soc. Entomol. Belg.* 83(1/2): 69.



**Original Combination:** [*Colias philodice* f. *anthyale*] ab. *reducta*

**Type Locality:** "Temple, Pa. E. U. A." [Berks County, Pennsylvania]

**Types:** "Syntype" in IRSN.

‡"vernalis" Scott, 1986

Butts. N. Am.: 198, no. 38.

**Original Combination:** [*Colias philodice*] form *vernalis*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. *Colias philodice eriphyle* W. H. Edwards, 1876

Trans. Am. Entomol. Soc. 5(3/4): 202.

**Original Combination:** *Colias Eriphyle*

**Type Locality:** "Lake Labache [sic!], in British Columbia" [Lake Lahache]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 87, fig. 20 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 35, fig. 15 ♂ D.

= *hagenii* W. H. Edwards, [1884]

Papilio 3(7-10): 160-161, 163, no. 11.

**Original Combination:** *Colias Hagenii*

**Type Locality:** "Rocky Mountains from Colorado to B. Am....Pueblo, Col....various localities...So. Colorado to Montana and Dacotah (Bismarck)"; defined as "northeastern corner of South Park, Park Co., Colorado" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 87.

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 90, fig. 21 ♂ D&V.

= *kootenai* Cockle, 1910

Can. Entomol. 42(6): 203-204.

**Original Combination:** *Colias Kootenai*

**Type Locality:** "Kaslo and in Northern British Columbia" implied from the title of the paper.

**Types:** Holotype in CNC.

= ‡"autumnalis" Cockerell, 1888

W. Am. Sci. 4(33): 42.

**Original Combination:** [*Colias Eurytheme Eriphyle*] autumn brood *autumnalis*

**Type Locality:** "Swift Creek, Custer Co., Colo." [Colorado]

**Types:** Type(s) possibly in BMNH.

= ‡"nigricosta" (F. Chermock, 1929)

Bull. Brooklyn Entomol. Soc. 24(1): 21.

**Original Combination:** *Eurymus eurytheme* f. *eriphyle* var. *nigricosta*

**Type Locality:** "Edmonton, Alberta, Canada"

**Types:** "Holotype" in MGCL.

= ‡"laurae" (F. Chermock, 1929)

Bull. Brooklyn Entomol. Soc. 24(1): 21.

**Original Combination:** *Eurymus eurytheme* f. *eriphyle* ab. *laurae*

**Type Locality:** "Edmonton, Alberta, Canada"

**Type Locality:** "Holotype" in MGCL.

c. *Colias philodice vitabunda* Hovanitz, 1943

Am. Mus. Novit. (1240): 2, 3-4.

**Original Combination:** *Colias chrysotheme vitabunda*

**Type Locality:** "McKinley National Park, Alaska" [Denali National Park]

**Types:** Holotype in AMNH.

= ‡"pallidissima" Bowman, 1942

Can. Entomol. 74(2): 25.

**Original Combination:** [*Colias eurytheme alberta*] ab. ♀ *pallidissima*

**Type Locality:** "Fort Vermillion, Alta." [Alberta]

**Types:** Holotype in CNC.

341. *Colias eurytheme* Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 286, no. 13.

**Original Combination:** *Colias eurytheme*

**Type Locality:** "toute la Californie...aussi le Mexique et quelques parties des Etats-Unis"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 8.

**Types:** Lectotype USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9, figs. 6 ♂ D, 7 ♂ V; figured by Verity [1908], Rhop. palae.: pl. 49, fig. 42 ♂ D, labeled "Californie."

= *amphidusa* Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 286-287, no. 14.

**Original Combination:** *Colias amphidusa*

**Type Locality:** "Du nord de la Californie"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9.

**Types:** Lectotype USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9, figs. 9 ♂ D, 10 ♂ V; figured by Verity [1908], Rhop. palae.: pl. 49, fig. 44 ♂ D, labeled "Californie."

= *californiana* Ménétériés, 1855

Enum. corp. anim. (1): 80, under no. 253.

**Original Combination:** [*Colias Edusa*] var. *Californiana*

**Type Locality:** “Nouvelle Californie”

**Types:** Type(s) should be in ZIN.

= *keewaydin* W. H. Edwards, 1869

Butts. N. Am. [1](4): [47]-[49], pl. *Colias* 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, 5 ♀ D, 6 ♂ D, 8 ♂ D, 9 ♀ D.

**Original Combination:** *Colias Keewaydin*

**Type Locality:** “valley of the Mississippi from Nebraska and Illinois to Texas and westward to the Pacific...Middle States and Canada”; defined as “Sedalia, Missouri” by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 78-81. [Pettis County]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 81, fig. 18 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 36, fig. 9 ♂ D.

= *ariadne* W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, 12-13, no. 4; figured by W. H. Edwards (1878), Butts. N. Am. 2(7): pl. *Colias* 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ V.

**Original Combination:** *Colias Ariadne*

**Type Locality:** “Mokelumna Hills [*sic*!], California” [Mokelumne Hill, Calaveras County]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 83, fig. 19 ♂ D&V.

= ♀ “*alba*” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat. Lepid: 82, no. 60b; cited W. H. Edwards (1869), Butts. N. Am. [1](4): pl. *Colias* 3, figs. 5 ♀ D, 6 ♀ V.

**Original Combination:** [*Colias Chrysotheme* var. a. gen. 2 *Eurytheme*] ab. b. *Alba*

**Type Locality:** Not stated.

**Types:** “Type(s)” possibly in CMNH.

It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), and is included herein for the sake of completeness.

= ♀ “*flava*” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 83, no. 60c.

**Original Combination:** [*Colias Chrysotheme* var. a. gen. 2 *Eurytheme*] ab. c. *Flava*

**Type Locality:** Not stated.

**Types:** “Holotype” possibly in FMNH.

It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), and is included herein for the sake of completeness.

= ♀ “*alba*” Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 83, no. 60e; cited W. H. Edwards (1869), Butts. N. Am. [1](4): pl. *Colias* 4, fig. 9 ♀ V.

**Original Combination:** [*Colias Chrysotheme* var. d. *Keewaydin*] ab. e. ♀ *Alba*

**Type Locality:** Not stated.

**Types:** “Holotype” possibly in CMNH.

It is doubtful that this can be considered the description of a new taxon. It has been listed in checklists and catalogues (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 80), and is included herein for the sake of completeness.

= ♀ “*pallida*” Cockerell, 1887

W. Am. Sci. 3(31): 217.

**Original Combination:** *Colias* [*Colias*]. *eurytheme* var. *pallida*

**Type Locality:** “near West Cliff [*sic*!], Custer Co., Colorado” [Westcliffe]

**Types:** Type(s) possibly in BMNH.

= ♀ “*typica*” Cockerell, 1888

W. Am. Sci. 4(33): 41-43.

**Original Combination:** *Colias eurytheme typica*

**Type Locality:** Not specifically stated; “vic. of Westcliffe, Custer Co., Colorado” implied from the text of the paper.

**Types:** Type(s) probably lost (or never existed).

This name was inadvertently proposed.

= ♀ “*intermedia*” Cockerell, 1888

W. Am. Sci. 4(33): 42 (in part).

**Original Combination:** [*Colias Eurytheme*] form *intermedia*

**Type Locality:** “Swift Creek, Custer Co., Colo.” [Colorado]

**Types:** Type(s) possibly in BMNH.

= ♀ “*pallida*” Cockerell, 1888

W. Am. Sci. 4(33): 42 (in part).

**Original Combination:** [*Colias Eurytheme*] *keewaydin* [female form] *pallida*

**Type Locality:** Not specifically stated; “vic. of Westcliffe, Custer Co., Colorado” implied from the text of the paper.

**Types:** Type(s) possibly in BMNH.

= ♀ “*fumosa*” Strecker, 1900

Lepid. Rhop. Het. (suppl. 3): 19.

**Original Combination:** *Colias eurytheme* ♀ ab. *fumosa*

**Type Locality:** “Colorado”

**Types:** “Holotype” in FMNH.

= ♀ “*neuburgeri*” Geest, 1905

Z. wiss. InsektBiol. 1(9): 379, no. 3.

**Original Combination:** *Colias eurytheme* ab. *Neuburgeri*

- Type Locality:** Not stated.  
**Types:** Location of "type" not known.  
 = ♀ "albina" Röber, 1909  
*In:* Seitz, Grossschmett. Erde 5(29): 93.  
**Original Combination:** [*Colias eurytheme*] ab. *albina*  
**Type Locality:** Not stated; "lectotype" from "Nevada, Verdi." [Washoe County]  
**Types:** "Lectotype" in ZMHB, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 142, no. 10.  
 = ♀ "unicitrina" (Gunder, 1924)  
*Entomol. News* 35(3): 158, pl. 2, fig. J ♂ D ("holotype").  
**Original Combination:** *Eurymus eurytheme amphidusa* ab. ♂ *unicitrina*  
**Type Locality:** "Upland, Los Angeles Co., California"  
**Types:** "Holotype" in AMNH.  
 = ♀ "rudkini" (Gunder, 1932)  
*Can. Entomol.* 64(12): 277-278.  
**Original Combination:** *Eurymus eurytheme* tr. f. *rudkini*  
**Type Locality:** "San Marino, Los Angeles Co., Calif." [California]  
**Types:** "Holotype" in AMNH.  
 ♀ "vernalis" Scott, 1986  
*Butts. N. Am.:* 196, no. 37.  
**Original Combination:** [*Colias eurytheme*] form *vernalis*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
342. ***Colias occidentalis* Scudder, 1862**  
 a. ***Colias occidentalis occidentalis* Scudder, 1862**  
*Proc. Boston Soc. Nat. Hist.* 9: 109-111, unnumbered fig.  
**Original Combination:** *Colias Occidentalis*  
**Type Locality:** "Gulf of Georgia...Fort Simpson, British America"; lectotype from "Gulf of Georgia." This locality was interpreted to be "...near Port Townsend, Wash. Terr., Gulf of Georgia" by H. Hagen (1883), *Proc. Boston Soc. Nat. Hist.* 22: 164. [Jefferson County, Washington]  
**Types:** Lectotype (#16603) in MCZ, designated by W. Barnes and McDunnough (1918), *Contr. Nat. Hist. Lepid. N. Am.* 4(2): 65; the same specimen was later designated lectotype by Ferris (1988), *Bull. Allyn Mus.* (116): 19, figs. 29 ♂ D, 30 ♂ V, 31 ♂ D UV.  
 ♀ "alba" Scott, 1986  
*Butts. N. Am.:* 196, no. 36.  
**Original Combination:** [*Colias occidentalis*] form *alba*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.  
 b. ***Colias occidentalis chrysomelas* Hy. Edwards, 1877**  
*Pac. Coast Lepid.* (24): 8-9, 11.  
**Original Combination:** *C[olias]. Chrysomelas*  
**Type Locality:** "Napa County, Cal." [California]  
**Types:** Lectotype (#3448 2308) in AMNH, designated by Ferris (1993), *Bull. Allyn Mus.* (138): 38, figs. 56 ♂ D, 57 ♂ V, 58 ♂ D UV.  
 On page 9 this taxon was spelled "chryomelas," an incorrect original spelling. L. Miller and F. Brown (1983), *in:* Hodges, *et al.*, *MONA Check List*: 52, spelled this name "chrysomelaena," an unjustified emendation of *chrysomelas*.  
 = ♀ "shastae" (W. Barnes & Benjamin, 1926)  
*Bull. South. Calif. Acad. Sci.* 25(3): 88, under no. 63a.  
**Original Combination:** *Eurymus occidentalis chrysomelas* form *shastae*  
**Type Locality:** "Shasta Retreat, Siskiyou Co., Calif." [California]  
**Types:** "Holotype" in USNM.
343. ***Colias christina* W. H. Edwards, 1863**  
 Opler (1999), *Field Guide W. Butts.*: 165, and Hammond and McCorkle (2003), *J. Lepid. Soc.* 57(4): 274-278, suggested that this taxon is conspecific with *C. occidentalis*. The arrangement of *christina* and *occidentalis* as geographic subspecies is evocative, but the arrangement proposed by A. Warren (2005), *Butts. Ore.*: 87-91, is herein maintained until further information becomes available.  
 a. ***Colias christina kluanensis* Ferris, 1981**  
*Bull. Allyn Mus.* (63): 1-3, figs. 1 ♂ D, 2 ♂ V (holotype); 4 ♀ D, 5 ♀ V.  
**Original Combination:** *Colias alexandra kluanensis*  
**Type Locality:** "Haines Junction, Y. T., Canada" [Yukon Territory]  
**Types:** Holotype in MGCL.  
 ♀ "yukonensis" Berger, 1986  
*Lambillionea* 86(7/8, suppl.): 45.  
**Original Combination:** [*Colias*] *Yukonensis*  
**Type Locality:** "Yukon (Canada)"  
**Types:** Location of types not known, possibly none designated.  
 Here considered a *nomen nudum*, although the key containing this name might be considered a description.  
 b. ***Colias christina christina* W. H. Edwards, 1863**  
*Proc. Entomol. Soc. Philad.* 2[2]: 78, 79-80, no. 2; figured by W. H. Edwards (1868), *Butts. N. Am.* [1](2): pl. *Colias* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.



**Original Combination:** *Colias Christina*

**Type Locality:** "portage of the Slave River"; W. H. Edwards (1884), *Papilio* 4(2): 30, added "about latitude 60°"; defined as "near the Slave River between Fort Smith, Northwest Territories and Fitzgerald, Alberta" by Kondla (1995), *Alberta Naturalist* 25(4): 76. [Northwest Territories]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), *Trans. Am. Entomol. Soc.* 99(1): 63, fig. 13 ♂ D&V.

= *alberta* Bowman, 1942

*Can. Entomol.* 74(2): 25.

**Original Combination:** *Colias eurytheme alberta*

**Type Locality:** "Wembley, Alta." [Alberta]

**Types:** Holotype in CNC; figured by Ferris (1972), *Bull. Allyn Mus.* (5): 13, fig. ♂ D&V.

Ferris (1972), *Bull. Allyn Mus.* (5): 7-9, suggested that this taxon may be a form of *C. eurytheme*, but Masters (1971), *J. Res. Lepid.* 9(2): 97-99, and Kondla (1991), *Utahensis* 6(4): 45, presented evidence supporting this synonymy.

= *¶"pallida"* Cockerell, 1889

*Entomol.* 22(312): 128, no. 2f; cited *Colias christina* (*sensu* Lyman (1884), *Can. Entomol.* 16(1): 6).

**Original Combination:** *C[olias]. christina* ♀ *pallida*

**Type Locality:** Not stated; Lyman (1884), *ibid.*, recorded the type from "North-west Territories."

**Types:** "Type" is the specimen mentioned by Lyman, may be in LEMQ.

c. *Colias christina sacajawea* Kohler, 2006

*Papilio* (n.s.) 12: 8-9, pl. 1, 4th row left ♂ D, 5th row left ♂ V (holotype), 4th row center ♀ D, 5th row center ♀ V, 4th row right ♀ D&V, 5th row right ♀ V, pl. 2, 1st row left ♂ D, 2nd row left ♂ V, 1st row center ♂ D&V, 2nd row center ♂ V, 1st row right ♀ D&V, 2nd row right ♀ D&V.

**Original Combination:** *Colias christina sacajawea*

**Type Locality:** "Elkhorn Creek, Beartooth Game Range, Lewis & Clark Co., Montana"

**Types:** Holotype in Kohler collection, will be deposited in BYU.

d. *Colias christina krauthii* Klotz, 1935

*Am. Mus. Novit.* (767): 1-2.

**Original Combination:** *Colias christina krauthii*

**Type Locality:** "twelve miles west of Custer, Black Hills, South Dakota" [Custer County]

**Types:** Holotype in AMNH.

e. *Colias christina pseudochristina* Ferris, 1989

*Bull. Allyn Mus.* (128): 2-9, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♂ D UV, 5 ♂ D, 6 ♀ V, 8 ♂ V, 9 ♂ V, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♀ D, 14 ♀ V.

**Original Combination:** *Colias pseudochristina*

**Type Locality:** "Summit Co., Utah along the North Fork of the Provo River"

**Types:** Holotype in MGCL.

= *wasatchia* Gillette, 1989

*Utahensis* 8(4): [38-51].

**Original Combination:** *Colias occidentalis wasatchia*

**Type Locality:** "A ridge 2.3 mi. west of the SW end of Strawberry Reservoir, elev. (2408m)/7900 ft, on the west side of the W Strawberry Rsv road, and 1.9 mi. south of East Portal, Wasatch Co., Utah"

**Types:** Holotype in BYU.

f. *Colias christina sullivanii* Hammond & McCorkle, 2003

*J. Lepid. Soc.* 57(4): 275-276, figs. 1st row left ♂ D (holotype), 1st row left center ♀ D, 2nd row left ♂ V, 2nd row left center ♀ V, 3rd left ♂ V, left center ♂ V, right center ♂ V, right ♂ V, 4th row left ♂ D, 4th row left center ♂ V, 4th row right center ♂ V, 4th row right ♂ V.

**Original Combination:** *Colias occidentalis sullivanii*

**Type Locality:** "Oregon, Harney County, Alvord Desert road at north end of Steens Mountains, T29N, R36E, sec. 25, 26"

**Types:** Holotype in AMNH.

A. Warren (2005), *Butts. Ore.*: 91, placed this taxon with *C. christina*.

344. *Colias alexandra* W. H. Edwards, 1863a. *Colias alexandra altamont* Kondla & Kohler, 2006

*Papilio* (n.s.) 12: 11-12, pl. 1, 1st row left ♂ D, 2nd row left ♂ V (holotype), 1st row center ♀ D, 2nd row center ♀ V, 1st row right ♀ D, 2nd row right ♀ V.

**Original Combination:** *Colias alexandra altamont*

**Type Locality:** "Arrow Creek breaks, Hwy. 80, 19 mi. N. of Stanford, Fergus Co., Montana"

**Types:** Holotype in Kohler collection, will be deposited in BYU.

b. *Colias alexandra astraea* W. H. Edwards, 1872

*Trans. Am. Entomol. Soc.* 4(1/2): 61, no. 1.

**Original Combination:** *Colias Astraea*

**Type Locality:** "near the Yellowstone Lake" [Yellowstone National Park, Wyoming]

**Types:** Holotype in CMNH, figured by F. Brown (1973), *Trans. Am. Entomol. Soc.* 99(1): 73, fig. 17 ♂ D&V.

c. *Colias alexandra alexandra* W. H. Edwards, 1863

*Proc. Entomol. Soc. Philad.* 2[1]: 14-15, no. 1; [4]: pl. 11, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V; figured by W. H. Edwards (1868), *Butts. N. Am.* [1](2): pl. *Colias* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Colias Alexandra*

**Type Locality:** "Pikes Peak...Rocky Mountains"; defined as "foothills west of Denver, Colorado" by F. Brown (1973), *Trans. Am. Entomol. Soc.* 99(1): 60.

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 62, fig. 12 ♂ D&V.

= ♀"alba" Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 81, no. 55a.

**Original Combination:** [*Colias Alexandra*] ab. a. ♀ *Alba*

**Type Locality:** Not stated.

**Types:** Type apparently lost, if it ever existed.

Strecker may not have intended to describe this as a new taxon.

= ♀"pallida" Cockerell, 1889

Entomol. 22(312): 128, no. 2f; cited W. H. Edwards (1887), Can. Entomol. 19(12): 229 (actually 230).

**Original Combination:** [*Colias*] *alexandra* ♀ *pallida*

**Type Locality:** Not specifically stated; the white female mentioned by W. H. Edwards is from "Colorado."

**Types:** Type, if it can be identified, is probably in CMNH.

d. *Colias alexandra altiplano* M. Fisher & Scott, 2006

Papilio (n.s.) 12: 10-11, pl. 6, 3rd row left ♂ D, 4th row left ♂ V (holotype), 3rd row center ♀ D, 4th row center ♀ V.

**Original Combination:** *Colias edwardsii* (*alexandra*?) *altiplano*

**Type Locality:** "Piney Creek, 6000 ft., Arapahoe Co., Colorado"

**Types:** Holotype in CSUC.

e. *Colias alexandra apache* Ferris, 1988

Bull. Allyn. Mus. (116): 8-11, figs. 4 ♂ D, 5 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Colias alexandra apache*

**Type Locality:** "13 mi. E. of McNary, 2520 m, Apache Co., Arizona"

**Types:** Holotype in MGCL.

f. *Colias alexandra edwardsii* W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, 11, no. 2; figured by W. H. Edwards (1870), Butts. N. Am. [1](6): pl. Colias 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Colias Edwardsii*

**Type Locality:** "near Virginia City, at high elevations" [Storey County, Nevada]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 67, fig. 14 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 68, fig. 24 ♂ D.

= *emilia* W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, 12, no. 3.

**Original Combination:** *Colias Emilia*

**Type Locality:** "Oregon"; neotype from "Crump Lake, 4500', Lake County, Oregon."

**Types:** Neotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 72, fig. 15 ♂ D&V.

= ♀"hatui" (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no. 67a.

**Original Combination:** *Eurymus alexandra edwardsi* form ♀ *hatui*

**Type Locality:** "Stockton, Utah" [Tooele County]

**Types:** "Holotype" in USNM.

g. *Colias alexandra pseudocolumbiensis* C. Guppy & J. Shepard, 2001

Butts. B. C.: 172-173, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Colias alexandra pseudocolumbiensis*

**Type Locality:** "BC, Hall Creek at Hwy. 33" [British Columbia]

**Types:** Holotype in BCPM.

h. *Colias alexandra columbiensis* Ferris, 1973

J. Lepid. Soc. 27(1): 68-71, figs. 6a, 6b ♂ D&V (holotype); 6c, 6d ♀ D&V, 6e ♂ D UV (holotype), 6f same.

**Original Combination:** *Colias alexandra columbiensis*

**Type Locality:** "Anderson Lake, D'Arcy, B. C." [British Columbia]

**Types:** Holotype in CNC.

The status of *columbiensis* and *pseudocolumbiensis* as subspecies of *C. alexandra* needs further study.

345. *Colias harfordii* Hy. Edwards, 1877

Pac. Coast. Lepid. (24): 9.

**Original Combination:** *Colias Harfordii*

**Type Locality:** "Contra Costa Co...Havilah [sic!], Kern Co." [Havilah, Kern County, California]

**Types:** Lectotype (#3436 7003) in AMNH, designated by Ferris (1993), Bull. Allyn Mus. (138): 14, figs. 4 ♂ D, 5 ♂ V, 6 ♂ D UV. The first reviser choice of *harfordii* over *barbara* was made by Skinner (1898), Syn. Cat. N. Am. Rhop.: 69.

= *barbara* Hy. Edwards, 1877

Pac. Coast. Lepid. (24): 7-8, 11.

**Original Combination:** *Colias Barbara*

**Type Locality:** "Santa Barbara...Gilroy"; lectotype from "San Bernardino California." [San Bernardino County]

**Types:** Lectotype (#3440 7005) in AMNH, designated by Ferris (1993), Bull. Allyn Mus. (138): 13.

= ♀"weaverae" (Gunder, 1924)

Entomol. News 35(3): 156-157, pl. 2, fig. G ♀ D ("holotype").

**Original Combination:** *Eurymus harfordii* ab. ♀ *weaverae*

**Type Locality:** "Warner Springs, San Diego County, California"

**Types:** "Holotype" in AMNH.

L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 80, suggested that this may be a hybrid with *C. eurytheme*, but Ferris

- (1988), Bull. Allyn Mus. (116): 5, considered this within the normal range of variation in *C. harfordii*.  
 = ♀ "martini" (Gunder, 1931)  
 Bull. South. Calif. Acad. Sci. 30(2): 45.  
**Original Combination:** *Eurymus harfordii* form ♀ *martini*  
**Type Locality:** "South side of Arrowhead Lake, San Bernardino Co., Calif." [California]  
**Types:** "Holotype" in AMNH.
346. ***Colias meadii*** W. H. Edwards, 1871  
 a. ***Colias meadii meadii*** W. H. Edwards, 1871  
 Trans. Am. Entomol. Soc. 3(3/4): 266, 267-268, no. 2; figured by W. H. Edwards (1872), Butts. N. Am. [1] (10): pl. Colias 8, figs. 6 ♂ D, 7 ♂ V, 8 ♀ D, 9 ♀ V.  
**Original Combination:** *Colias Meadii*  
**Type Locality:** Not stated; W. H. Edwards (1872), Butts. N. Am. [1] (10): [59], noted "Colorado...on the 'divide'...Mt. Lincoln...Kenosha House"; defined as "Mosquito Pass" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 158-159; further defined as "Mosquito Pass, Park-Lake Counties, Colorado" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 91.  
**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 93, fig. 22 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 36, fig. 5 ♂ D.  
 = ♀ "medi" (Gunder, 1934)  
 Can. Entomol. 66(6): 125.  
**Original Combination:** *Eurymus meadii* f. ♀ *medi*  
**Type Locality:** "Breckenridge Peak (11,000 f.), Empire Co., Colorado" [probably Summit County]  
**Types:** "Holotype" in AMNH.  
 ♀ "alba" Scott, 1986  
 Butts. N. Am.: 194, no. 34.  
**Original Combination:** [*Colias meadii meadii*] form *alba*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- b. ***Colias meadii elis*** Strecker, 1885  
 Proc. Acad. Nat. Sci. Philad. 37[2]: 24; [3]: 25.  
**Original Combination:** *Colias Elis*  
**Type Locality:** "at an elevation of 10,000 feet...summit of 'Kicking Horse Pass', in the Rocky Mountains, between Alberta Territory and British Columbia, at the boundary between the United States and the British possessions, about 300 miles north of Montana"; defined as "Kicking Horse Pass, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 39.  
**Types:** Holotype in FMNH; "types" (one possibly the holotype) figured by W. Holland (1898), Butt. Book: pl. 36, figs. 13 ♂ D, 14 ♀ D.  
 = ♀ "lambillioni" Dufrane, 1947  
 Anns. Soc. Entomol. Belg. 83(1-2): 70.  
**Original Combination:** [*Colias elis*] ab. *lambillioni*  
**Type Locality:** "Canada"  
**Types:** "Holotype" probably in MRAC.
- c. ***Colias meadii lemhiensis*** N. Curtis & Ferris, 1985  
 Bull. Allyn Mus. (91): 2-7, figs. 1 ♂ D, 2 ♂ V (holotype).  
**Original Combination:** *Colias meadii lemhiensis*  
**Type Locality:** "near Meadow Creek Lake, 4 mi. W. of Gilmore, 9100' (2775m), Lemhi Range, Salmon National Forest, Lemhi Co., Idaho"  
**Types:** Holotype in MGCL.
347. ***Colias johanseni*** Troubridge & Philip, 1990  
 Can. Entomol. 122(1/2): 16-17, figs. 1A ♂ D, 1B ♂ V (holotype); 2A ♀ D, 2B ♀ V, 3A ♂ V, 3B ♂ V.  
**Original Combination:** *Colias johanseni*  
**Type Locality:** "Canada, District of Mackenzie, Bernard Harbour, altitude 10 m" [Nunavut]  
**Types:** Holotype in CNC.
348. ***Colias hecla*** Lefèbvre, 1836  
 a. ***Colias hecla hecla*** Lefèbvre, 1836  
 Anns. Soc. Entomol. Fr. [1]5: 383-387, pl. 9B, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.  
**Original Combination:** *Colias Hecla*  
**Type Locality:** "l'Islande"; determined to be "Greenland" by Wolff (1964), Medd. Grønland 159(11): 16.  
**Types:** Lefèbvre's collection was auctioned in 1869 and the types are probably lost.  
 = *glacialis* M'Lachlan, 1878  
 J. Linn. Soc. Lond., Zool. 14(74): 108.  
**Original Combination:** *Colias Hecla*, var. *Glacialis*  
**Type Locality:** "lat. 81°45'...Hayes Sound, lat. 79°...Discovery Bay" [latitude 81°45' refers to Lady Franklin Bay, Nunavut]  
**Types:** Syntypes in BMNH; two figured by Ferris (1981), Bull. Allyn Mus. (63): figs. 8 ♂ D, 9 ♂ V, 11 ♀ D, 12 ♀ V, and (1982), Bull. Allyn Mus. (71): figs. 13 ♂ D, 14 ♂ V, 16 ♀ D, 17 ♀ V.  
 = *groenlandica* Rühl, 1893  
 Palae. Grossschmett. 1(3): 158.  
**Original Combination:** [*Colias Hecla*] var. *groenlandica*  
**Type Locality:** "Labrador, Grønland"; "Greenland" implied from the derivation of the name.  
**Types:** Location of type(s) not known.



- = *chrysothemoides* Verity, [1911]  
 Rhop. palae.: 356; pl. 71, figs. 22 ♂ D, 23 ♀ D; ind. syst.: xxxvii.  
**Original Combination:** [*Colias hecla*] forme *chrysothemoides*  
**Type Locality:** "Territoire de Barren, 114°30' long. O., 67°40' lat. N., Am. boréale" implied from the legend to plate 71. [vic. Coppermine, Northwest Territories]  
**Types:** Syntypes in BMNH.
- = *palamedes* Hemming, 1934  
 Stylops 3(5): 98, no. 17.  
**Original Combination:** *Colias hecla palamedes*  
 Proposed to replace *Colias hecla* var. *pallida* [Skinner], 1892, preoccupied, with the same data (Code Article 60.3).
- = *pallida* [Skinner], 1892  
 Entomol. News 3(3): 49, pl. 2, fig. 4 ♀ D.  
**Original Combination:** *Colias hecla* var. *pallida*  
**Type Locality:** "Greenland"; syntypes from "West Coast...McCormick Bay, Herbert Island and Disco."  
**Types:** Lectotype (#7030) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): 298, pl. 75, fig. 4 ♀ D, as "type."  
 The plate and accompanying legend were Skinner's work as editor, although this is not stated in the publication. Preoccupied by *Colias pallida* Staudinger, 1861, in: Staudinger and Wocke, Cat. Lepid. Europ.: 3. This taxon was redescribed by Skinner and Mengel (1892), Proc. Acad. Nat. Sci. Philad. 44[5]: 156-157.  
*♀ alba* Scott, 1986  
 Butts. N. Am.: 194, no. 33.  
**Original Combination:** [*Colias hecla hecla*] form *alba*  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- b. *Colias hecla hecla* Strecker, 1880  
 Bull. Brooklyn Entomol. Soc. 3(5): 33-34.  
**Original Combination:** *Colias Hela*  
**Type Locality:** "a considerable distance above Fort Churchill on west coast of Hudson's Bay"; suggested to be "the vicinity of Eskimo Point" by Ferris (1982), Bull. Allyn Mus. (71): 10. [Manitoba]  
**Types:** Syntypes in FMNH; figured by Ferris (1982), Bull. Allyn Mus. (71): figs. 35 ♂ D, 36 ♂ V, 37 ♀ D, 38 ♀ V, 39 ♀ D, 40 ♀ V.
- c. *Colias hecla aquilonaris* Grum-Grshimailo, 1900  
 Annu. Mus. zool. St. Pétersbourg 4[4]: 457-458, no. 2.  
**Original Combination:** *Colias aquilonaris*  
**Type Locality:** "In valle flum. Olenek, 67°5 lat...valle fl. Janae"; lectotype from "F[luss] Olenek, 67 1/2° B[reite]. 128 1/4° L[änge]., Ferro" [Sakha Autonomous Republic, Russia]  
**Types:** Lectotype in ZIN, designated by Grieshuber *et al.* (2001), Entomol. Z. 111(6): 170, figs. 8 ♂ V, 18 ♂ D.
- = *orientis* Wnukowsky, 1929  
 Zool. Anz. 83(9/10): 221.  
**Original Combination:** *Colias sulitelma orientis*  
 Proposed to replace *Colias hecla orientalis*, preoccupied, with the same data (Code Article 60.3).
- = *orientalis* Grum-Grshimailo, 1900  
 Annu. Mus. zool. St. Pétersbourg 4[4]: 458, no. 3.  
**Original Combination:** *Colias hecla* var. *orientalis*  
**Type Locality:** "In valle fl. Lenae et in valle fl. Olenek."; lectotype from "F[luss] Olenek 67 1/2° B[reite]. 128 1/4° L[änge]., Ferro." [Sakha Autonomous Republic, Russia]  
**Types:** Lectotype in ZIN, designated by Grieshuber *et al.* (2001), Entomol. Z. 111(6): 172, figs. 4 ♂ V, 13 ♂ D. Preoccupied by *Colias palaeno* var. *orientalis* Staudinger, 1892, Dtsche. Entomol. Z. "Iris" 5(2): 311.
- = *heliophora* Churkin & Grieshuber, 2001  
 Helios 2: 175-176, pl. 15, figs. 11 ♂ D (holotype), 12 ♂ V, pl. 16, 4 ♀ D, 5 ♀ V.  
**Original Combination:** *Colias viluensis heliophora*  
**Type Locality:** "Chukotka, Bilibino, B. Koperveem R., 350 m" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in DSM.
- = *zamolodchikovi* Churkin & Grieshuber, 2001  
 Helios 2: 178-180, pl. 15, figs. 5 ♂ D (holotype), 6 ♂ V, pl. 16, figs. 1 ♀ D, 2 ♀ V.  
**Original Combination:** *Colias hecla zamolodchikovi*  
**Type Locality:** "Russia, East Chukotka, 20 km SE Ioni Lake, Gilmimlvien, [65° 48' N, 173° 22' W]" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in DSM.
349. *Colias canadensis* Ferris, 1982  
 Bull. Allyn Mus. (71): 11-14, figs. 49 ♂ D, 50 ♂ V (holotype); 51 ♀ D, 52 ♀ D, 53 ♂ D, 54 ♂ V, 55 ♀ D, 56 ♀ V.  
**Original Combination:** *Colias hecla canadensis*  
**Type Locality:** "mile 209, Alaska Highway, British Columbia, Canada"  
**Types:** Holotype in MGCL.  
 Ferris (1988), Bull. Allyn Mus. (116): 12, elevated this taxon to the species-level.
- \*350. *Colias tyche* (Böber, 1812)  
 Mém. Soc. Imp. Nat. Moscou 3: 21, no. 7, pl. 1, figs. 3 ♂ D, 4 ♂ V; 320 (index, binomial combination).  
**Original Combination:** [*Papilio*] *Dan[aus]*. *Tyche*

**Type Locality:** “Sibérie” implied from the title of the paper; suggested to be “Lac Baikal” by V. Lukhtanov and A. Lukhtanov (1994), Tagf. NW Asiens (Herbipoliana 3): 68, but this remains uncertain. [Republic of Buryatia, Russia]

**Types:** Syntypes possibly in ZIN.

Grieshuber (1998), Lambillionea 98(1) (Tome 2): 126-134, 98(3) (Tome 2): 453-468, and (1998) 98(4) (Tome 1): 509-522, revised this species, and proposed the following synonymy.

= *melinos* Eversmann, 1847

Bull. Soc. Imp. Nat. Moscou 20(2) (3): 72-73, no. 7, pl. 3, figs. 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.

**Original Combination:** *Colias Melinos*

**Type Locality:** “Sibiria orientali”; suggested to be “environs of Ulan-Ude” by Grieshuber (2004), Helios 5: 8. [Republic of Buryatia, Russia]

**Types:** Lectotype in ZIN, designated by Grieshuber (2004), Helios 5: 6-7, pl. 1, fig. 12 ♂ D.

= *chloe* Eversmann, 1847

Bull. Soc. Imp. Nat. Moscou 20(2) (3): 73-74, no. 8, pl. 4, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Colias Chloë*

**Type Locality:** “Sibiria orientali, in provincia Irkutskensi, circa Kiachtan”; suggested to be “environs of Ulan-Ude” by Grieshuber (2004), Helios 5: 6. [Republic of Buryatia, Russia]

**Types:** Lectotype in ZIN, designated by Grieshuber (2004), Helios 5: 5-6, pl. 1, fig. 10 ♂ D.

= *magna* Rühl, 1893

In: Heyne, Palae. Grossschmett. 1(3): 153.

**Original Combination:** [*Colias Melinos*] var. *magna*

**Type Locality:** “Baikalien” [Republic of Buryatia, Russia]

**Types:** Location type(s) not known.

= *vitimensis* Austaut, 1899

Naturaliste (2)13(307): 284.

**Original Combination:** *Colias Melinos* V[ar]. *Vitimensis*

**Type Locality:** “des régions alpines de la Sibirie orientale, où la rivière Vitim va se jeter dans le fleuve Lèna” [Sakha Autonomous Republic, Russia]

**Types:** Syntypes possibly in BMNH.

= *deckerti* Verity, [1909]

Rhop. palae.: 236 [30 Apr 1909]; pl. 72, 27 ♂ D, 28 ♀ D; ind. syst.: xxxvi [31 Oct 1911].

**Original Combination:** [*Colias melinos*] var. *deckerti*

**Type Locality:** “Monts Apfel”; suggested to be “Pokrovka” by Grieshuber (1998), Lambillionea 98(1) (Tome 2): 130-131, no. 2. [Pokrovka, Chita Oblast, Russia]

**Types:** Syntypes in BMNH and ZMKU; figured by Chikolovets *et al.* (2002), Butts. Transbaikal Siberia: pl. 7, figs. 8 ♂ D, 23 ♀ V.

= *montana* Verity, [1911]

Rhop. palae.: 354; pl. 70, figs. 37 ♂ D, 38 ♀ D; ind. syst.: xxxvi.

**Original Combination:** [*Colias melinos*] race *montana*

**Type Locality:** “l’Altai” implied from the text, “Montagnes de Tchuja, 1800-2400 m., S.E. l’Altai” from the legend to plate 70. [Altai Republic, Altay Kray, Russia]

**Types:** Syntypes in BMNH.

= *ludmilla* Hemming, 1933

Entomol. 66(12)[847]: 278, no. 23.

**Original Combination:** *Colias melinos ludmilla*

Proposed to replace *Colias melinos* race *chryseis* Verity, 1911, with the same data (Code Article 60.3).

= “*chryseis*” Verity, [1911]

Rhop. palae.: 354, pl. 70, figs. 33 ♂ D, 34 ♀ D; ind. syst.: xxxvi.

**Original Combination:** [*Colias melinos*] race *chryseis*

**Type Locality:** “l’Amour”; this locality was doubted by Hemming (1933), Entomol. 66(12)[847]: 278. [Amur Oblast, Russia]

**Types:** Syntypes in BMNH.

Preoccupied by *Colias erato chryseis* Röber, 1907, in: Seitz, Grossschmett. Erde 1: 66, pl. 26b.

= *relicta* Kurentsov, 1970

Butts. Far East USSR: 38, fig. 28(4) ♂ D, fig. 29(8) ♂ genitalia.

**Original Combination:** *C[olias]. m[elinos]. relicta*

**Type Locality:** [the mountains at the source of the Okhota River, where it favors a few peaks in the Verkhoyansk Range, to an elevation of 3000 meters above sea level]; holotype from [Burgakhchan]. [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Holotype in the IPBV; registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 122, no. 4; figured by Churkin *et al.* (2001), Helios 2: pl. 8, figs. 13 ♂ D, 16 ♂ V.

= “*jeholensis*” Matsumura, 1939

Bull. Biogeogr. Soc. Japan 9(20): 344, no. 19; 348, no. 19, pl. 13, fig. 16 ♂ D (actually fig. 6).

**Original Combination:** *Colias herzi* form *jeholensis*

**Type Locality:** “Jehol...Mt. Kingan” [Nei Mongol Autonomous Region, China]

**Types:** Syntypes probably in EIHU.

a. *Colias tyche olga* Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001

Helios 2: 109-110, pl. 9, figs. 1 ♂ D, 2 ♂ D (holotype); 3 ♂ D, 4 ♂ D, 5 ♀ D, 15 ♂ V.

**Original Combination:** *Colias tyche olga*

**Type Locality:** "Russia, East Chukotka, 20 km SE Ioni Lake, Gilmimlvim, [65° 48' N, 173° 22' W]" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Holotype in DSM.

b. *Colias tyche thula* Hovanitz, 1955

Wasmann J. Biol. 13(1): 2-4, fig. 1 ♂ D (holotype), ♀ D, fig. 2 ♂ V (holotype), ♀ V.

**Original Combination:** *Colias nastes thula*

**Type Locality:** "near the Meade River, Alaska Territory, Alaska, N 70° 45' x 156° 30' W" [Meade River, S of Point Barrow, Alaska]

**Types:** Holotype in USNM.

c. *Colias tyche boothii* J. Curtis, 1835

In: Ross, Voy. Search Northwest Pass., Appendix: lxx-lxvi, no. 10, pl. A, figs. 3 ♂ D, 4 ♀ D, 5 ♀ V.

**Original Combination:** [*Colias*] *Boothii*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Lectotype in USNM, designated by Verity [1907], Rhop. palae.: pl. 43, fig. 37 ♂ D, pl. 44, fig. 4 ♂ V, as "type"; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 3 ♂ D, and W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(part 2, section 5): pl. 26, figs. 11, 11a ♂ D&V.

= *chione* J. Curtis, 1835

In: Ross, Voy. Search Northwest Pass., Appendix: lxxi-lxxvii, no. 11, pl. A, fig. 6 ♂ D.

**Original Combination:** [*Colias*] *Chione*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Syntypes in UMO and USNM; supposed "type" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 68, fig. 33 ♂ D.

351. *Colias nastes* Boisduval, 1832

a. *Colias nastes nastes* Boisduval, 1832

Icon. Hist. Lépid. Europ. 1(4): pl. 8, figs. 4 ♂ D, 5 ♂ V (1832); (24): 245-246 [1834].

**Original Combination:** *Colias Nastes*

**Type Locality:** "Cap-Nord et en Islande...Labrador" McDunnough (1928), Can. Entomol. 60(11): 270, suggested that the original figures resembled specimens from Labrador more than those from Iceland and Norway.

**Types:** Lectotype in USNM, designated by Ferris (1985), Bull. Allyn Mus. (96): 27; figured by W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(2)(5)(II): pl. 26, figs. 1 ♂ D, 1a ♂ V.

= *rossii* Guenée, 1864

Annls. Soc. Entomol. Fr. (4)4(2): 199-200.

**Original Combination:** *Colias Rossii*

**Type Locality:** Not stated. The reference to Curtis' Voyage in the text implies the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. This is based on Ross (1835), Voy. Search Northwest Pass., itineraries in vol. 1, and a letter from John Ross in vol. 2 Addenda: 732-735. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Holotype in USNM; "types" figured by Verity [1908], Rhop. palae.: pl. 49, figs. 27 ♂ D, 28 ♀ D, and W. Holland and Avinoff (1935), Mem. Carnegie Mus. 12(2)(5): pl. 26, figs. 8, 8a ♂ D&V (probably the holotype).

= *gueneei* Avinoff, 1935

In: W. Holland and Avinoff, Mem. Carnegie Mus. 12(2)(5): 13-14, no. 10, 32, pl. 27, figs. 1 ♂ D (holotype), 11 ♀ D, 21-22 ♂ D, 25-27 ♀ D, 31-32 ♂ D.

**Original Combination:** *Colias nastes gueneei* subsp. nov.

**Type Locality:** "Southampton [*sic!*] Island" [Southampton Island, Nunavut]

**Types:** Holotype in CMNH.

= *standfussi* Röber, 1909

In: Seitz, Grossschmett. Erde 5(29): 91.

**Original Combination:** [*Colias pelidne*] form *standfussi*

**Type Locality:** Not stated.

**Types:** Syntypes probably in ZMHB.

Described in the text as a possible hybrid or aberration, and treated as unavailable on that account (Code Article 1.3.3).

b. *Colias nastes moina* Strecker, 1880

Bull. Brooklyn Entomol. Soc. 3(5): 34.

**Original Combination:** *Colias Moina*

**Type Locality:** "a considerable distance above Fort Churchill on west coast of Hudson's Bay" implied from the description of *Colias helas*; suggested to be "the vicinity of Eskimo Point, Northwest Territories" by Ferris (1985), Bull. Allyn Mus. (96): 31-32. [Manitoba]

**Types:** Lectotype in FMNH, designated by Ferris (1985), Bull. Allyn Mus. (96): 32, figs. 109 ♂ D, 110 ♂ V.

= *harperi* (Gunder, 1932)

Can. Entomol. 64(12): 278.

**Original Combination:** *Eurymus nastes moina* tr. f. *harperi*



**Type Locality:** “Ft. Churchill, Manitoba, Can.”

**Types:** “Holotype” in AMNH.

c. *Colias nastes aliaska* O. Bang-Haas, 1927

Horae Macrolepid. 1(3): 41, pl. 5, figs. 24 ♂ D, 25 ♀ D.

**Original Combination:** *Colias nastes aliaska*

**Type Locality:** “Alaska: Rampart [sic!]” [Rampart]

**Types:** Syntypes in ZMHB; figured by Verhulst (2004), Lambillionea 104(1) (Tome 1): ♂ D&V, ♀ D&V.

= *subarctica* (McDunnough, 1928)

Can. Entomol. 60(11): 271.

**Original Combination:** [*Eurymus nastes*] *subarctica*

**Type Locality:** “Bernard Harbour, N. W. T.” [Nunavut]

**Types:** Holotype (#2863) in CNC; figured by Ferris (1985), Bull. Allyn Mus. (96): fig. 120 ♂ D, 121 ♂ V.

= ♀ “cocandicides” Verity, [1911]

Rhop. palae.: 335 (as *rossii*); pl. 71, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V (as *rossi* [sic!]); ind. syst.: xxxvii (as *cocandicides*).

**Original Combination:** [*Colias nastes rossii*] *cocandicides*

**Type Locality:** “Territoire de Barren, 114°30' long. O., 67°40' lat. N., Am. boréale” implied from the legend to plate 71. [vic. Coppermine River, Nunavut]

**Types:** “Types” in BMNH.

d. *Colias nastes ferrisi* Verhulst, 2004

Lambillionea 104(1) (Tome 1): 129-130, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ D, 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V, 17 ♂ D, 18 ♂ V, 19 ♀ D, 20 ♀ V.

**Original Combination:** *Colias nastes ferrisi*

**Type Locality:** “Canada, Yukon Terr. Dempster Hwy., Richardson Mts., 980 m, env. Glacier Creek”

**Types:** Holotype in IRSN.

e. *Colias nastes dezhevi* Korshunov, 1995

In: Korshunov and Gorbunov, Butts. Asiatic Russia: 67.

**Original Combination:** *Colias nastes dezhevi*

Proposed to replace *Colias nastes sibirica* Kurentsov, 1970, with the same data. (Code Article 60.3).

= ♀ *sibirica* Kurentsov, 1970

Butts. Far East USSR: 35, fig. 29(3) ♂ genitalia.

**Original Combination:** C[*olias*]. n[*astes*]. *sibirica*

**Type Locality:** [Chukotka peninsula west to the lower reaches of the Kolyma River]; lectotype from [Chap[liinskii] kl[yuchi], gor[naya] t[undra]. [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Lectotype in IPBV, designated by Churkin *et al.* (2001), Helios 2: pl. 8 figs. 14 ♂ D, 17 ♂ V.

Preoccupied by *Colias aurora sibirica* Lederer, 1852, Verh. zool.-bot. Ges. Wien 2: 18.

f. *Colias nastes streckeri* Grum-Grshimailo, 1895

Horae Soc. Entomol. Ross. 29(1/2): 290-291, no. 2.

**Original Combination:** *Colias Nastes* var. *Streckeri*

**Type Locality:** “provincia Alberta ad Laggan”; restricted to “vicinity of...Lake Louise, Banff National Park, Alberta” by Kondla (1996), Alberta Naturalist 26(2): 40.

**Types:** Lectotype in FMNH, designated by Ferris (1985), Bull. Allyn Mus. (96): 35, figs. 123 ♂ D, 124 ♂ V.

= *dioni* Verhulst, 1999

Lambillionea 99(4) (Tome 2): 624, no. 4, pl. 2, figs. 17 ♂ D, 18 ♂ D, 19 ♂ D, 20 ♀ D.

**Original Combination:** *Colias nastes dioni*

**Type Locality:** “Canada, Alberta, Kananaskis Co., Plateau Mountain, 2650 m”

**Types:** Holotype in IRSN.

= ♀ “obscurata” Verity, [1911]

Rhop. palae.: 354-355, pl. 71, fig. 6 ♂ D; ind. syst.: xxxvi.

**Original Combination:** [*Colias nastes*] race *streckeri* ab. *obscurata*

**Type Locality:** “Lake Louise, Alberta” implied from the legend to plate 71.

**Types:** “Holotype” in BMNH.

= ♀ “palliflava” (McDunnough, 1927)

Can. Entomol. 59(7): 154.

**Original Combination:** [*Eurymus nastes streckeri*] ab. *palliflava*

**Type Locality:** “higher slopes of Mt. McLean (above 6500 ft.)” [British Columbia]

**Types:** “Holotype” (#2425) in CNC.

352. *Colias scudderii* Reakirt, 1865

Proc. Entomol. Soc. Philad. 4[2]: 217-218, no. 2.

**Original Combination:** *Colias Scudderii*

**Type Locality:** “Rocky Mountains, Colorado Territory”; redefined as “vic. Empire, Clear Creek County, Colorado” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 83; neotype from “...east slope of Berthoud Pass along Hwy. 40 at Hoop Creek in the Arapahoe National Forest, 10,800', Clear Creek Co., Colorado.”

**Types:** Neotype in MGCL, designated by Ferris (1987), Bull. Allyn Mus. (112): 7, figs. 4 ♂ D, 5 ♂ V.

= *flavotincta* Cockerell, 1901

Psyche 9(10) [300]: 187; cited W. H. Edwards (1872), Butts. N. Am. [1] (10): pl. Colias 8, fig. 5 ♀ D.

**Original Combination:** *Colias scudderii* var. *flavotincta*

**Type Locality:** “New Mexico”; redefined as “upper Arkansas River Valley” or “the vicinity of Twin Lakes, Lake Co. Colorado”

by Ferris (1987), Bull. Allyn Mus. (112): 8-9.

**Types:** Lectotype in CMNH, designated by Ferris (1987), Bull. Allyn Mus. (112): 10, figs. 14 ♀ D, 15 ♀ V.

= *ruckesi* Klots, 1937

J. N. Y. Entomol. Soc. 45(3/4): 324-326.

**Original Combination:** *Colias scudderi ruckesi*

**Type Locality:** "Windsor [*sic!*] Creek Canyon, west of Cowles, N. Mex." [Winsor Creek Canyon, San Miguel County, New Mexico]

**Types:** Holotype in AMNH.

Ferris (1987), Bull. Allyn Mus. (112): 8, determined this synonymy.

‡"alba" Scott, 1986

Butts. N. Am.: 200, no. 42.

**Original Combination:** [*Colias scudderi*] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

353. *Colias gigantea* Strecker, 1900

a. *Colias gigantea gigantea* Strecker, 1900

Lepid. Rhop. Het. (suppl. 3): 19.

**Original Combination:** *Colias pelidne* var. *gigantea*

**Type Locality:** "west coast Hudson Bay, above Fort York" [Ontario]

**Types:** Lectotype in FMNH, designated by Ferris (1987), Bull. Allyn Mus. (112): 14, figs. 30 ♂ D, 31 ♂ V.

= *pelidneides* Staudinger, 1901

In: Staudinger and Rebel, Cat. Lepid. Palae. (3rd ed.): 15, no. 86i.

**Original Combination:** [*Colias Palaeno*] v. *Pelidneides*

**Type Locality:** "Amer. bor. (Hudson Bay, Alaska)"; defined as "Hudson Bay" by Ferris (1987), Bull. Allyn Mus. (112): 14. [Manitoba]

**Types:** Holotype in ZMHB; "types" figured by Verity [1911], Rhop. palae.: pl. 68, figs. 47 ♂ D, 48 ♀ D, labeled "Hudson Bay, Alaska."

b. *Colias gigantea mayi* F. Chermock & R. Chermock, 1940

Can. Entomol. 72(4): 81.

**Original Combination:** *Colias christina mayi*

**Type Locality:** "Riding Mountains, Manitoba"

**Types:** Holotype in CNC.

= ‡"marjorie" F. Chermock & R. Chermock, 1940

Can. Entomol. 72(4): 82.

**Original Combination:** *Colias christina mayi* ♀ form *marjorie*

**Type Locality:** "Riding Mountains, Manitoba"

**Types:** "Holotype" in CNC.

c. *Colias gigantea harroweri* Klots, 1940

Am. Mus. Novit. (1054): 4-6.

**Original Combination:** *Colias gigantea harroweri*

**Type Locality:** "Clear Creek, vicinity Lower Green River Lake, Sublette Co., Wyo., alt. 8400 ft." [Wyoming]

**Types:** Holotype in AMNH; figured by Howe (1975), Butts. N. Am.: pl. 97, fig. 20 ♂ D&V.

354. *Colias pelidne* Boisduval & Le Conte, [1830]

a. *Colias pelidne pelidne* Boisduval & Le Conte, [1830]

Hist. Lépid. Amér. sept. (7): pl. 21, figs. 4 ♂ D, 5 ♂ V; (8): 66-67; figured by Boisduval (1832), Icon. Hist. Lépid. Europ. 1(4): pl. 8, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

**Original Combination:** [*Colias*]. *Pelidne*

**Type Locality:** "Groenland et l'Islande...Labrador"; inferred from the figures to be "NE coast of Labrador" by Ferris (1988), Bull. Allyn Mus. (122): 9. [Newfoundland and Labrador]

**Types:** A "type" may be in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."

= *labradorensis* Scudder, 1862

Proc. Boston Soc. Nat. Hist. 9: 107-108, 1 unnumbered fig.

**Original Combination:** *Colias labradorensis*

**Type Locality:** "Caribou Island, Strait of Belle Isle, Labrador" [Newfoundland and Labrador]

**Types:** Lectotype (#5082) in MCZ, designated by Ferris (1988), Bull. Allyn Mus. (122): 10, figs. 28 ♂ D, 29 ♂ V.

= ‡"moeschleri" Grun-Grshimailo, 1894

Horae Entomol. Soc. ross. 27(3/4): 379, no. 1.

**Original Combination:** *Colias Pelidne* ab. ♀ *Moeschleri*

**Type Locality:** "Labrador" [Newfoundland and Labrador]

**Types:** "Holotype" in ZMHB; figured by Verity [1911], Rhop. palae.: pl. 68, fig. 50 ♀ D.

= ‡"mira" Verity, [1911]

Rhop. palae.: 347; pl. 68, fig. 49 ♂ D ("holotype"); ind. syst.: xxxiv.

**Original Combination:** [*Colias pelidne*] ab. *mira*

**Type Locality:** "Ravea dans le Labrador" [Newfoundland and Labrador]

**Types:** "Holotype" in BMNH.

‡"alba" Scott, 1986

Butts. N. Am.: 200, no. 41.

**Original Combination:** [*Colias pelidne*] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. ***Colias pelidne skinneri*** W. Barnes, 1897

Can. Entomol. 29(2): 41-42.

**Original Combination:** *Colias pelidne*, var. *Skinneri*

**Type Locality:** "Yellowstone National Park...Arangie, Idaho"; lectotype from "Yellowstone National Park." [Wyoming]

**Types:** Lectotype in USNM, designated by W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25: 89; figured by Ferris (1988), Bull. Allyn Mus. (122): figs. 43 ♀ D, 44 ♀ V.

= *minisni* W. Barnes & McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 67, pl. 7, fig. 7 ♂ D, cited Bean (1895), Psyche 7(228): 228.

**Original Combination:** [*Eurymus pelidne*] *minisni*

**Type Locality:** "Laggan, Alta." [Alberta]

**Types:** Holotype in USNM.

This was taxon was described by indication (Code Articles 12.1, 12.2); this name was listed without a description or indication by Bean (1895), *ibid*; a *nomen nudum*.

= ‡"neri" (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no 69b.

**Original Combination:** *Eurymus pelidne skinneri* form ♀ *neri*

**Type Locality:** "Yellowstone Park, Wyo." [Wyoming]

**Types:** "Holotype" in USNM; figured by Ferris (1988), Bull. Allyn Mus. (122): 15, figs. 45 ♀ D, 46 ♀ V.

= ‡"isni" (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no. 69c.

**Original Combination:** *Eurymus pelidne minisni* form ♀ *isni*

**Type Locality:** "Laggan, Alta." [Alberta]

**Types:** "Holotype" in USNM; figured by Ferris (1988), Bull. Allyn Mus. (122): 16, figs. 47 ♀ D, 48 ♀ V.

355. ***Colias interior*** Scudder, 1862

Proc. Boston Soc. Nat. Hist. 9: 108-109, 1 unnumbered fig.

**Original Combination:** *Colias interior*

**Type Locality:** "Northern shore of Lake Superior...mouth of the Saskatchewan River, British America"; defined as "the Portage at the rapids near the mouth of the Saskatchewan River" by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 159; further defined as "Mouth of the Saskatchewan River, vic. Grand Rapids, W. shore of Lake Winnipeg, Manitoba" by Ferris (1988), Bull. Allyn Mus. (122): 2.

**Types:** Holotype (#5081) in MCZ, figured by Ferris (1988), Bull. Allyn Mus. (122): 3, figs. 1 ♂ D, 2 ♂ V.

= *laurentina* (Scudder, 1876)

Proc. Boston Soc. Nat. Hist. 18(2): 190.

**Original Combination:** [*Eurymus Philodice*] var. *laurentina*

**Type Locality:** "Cape Breton Island" implied from title of paper; neotype from "Baddeck, Cape Breton I., Nova Scotia."

**Types:** Neotype in CNC, designated by Ferris (1988), Bull. Allyn Mus. (122): 7, figs. 24 ♂ D, 25 ♂ V; a pseudotype (#29299) in MCZ.

= *vividior* Berger, 1945

Lambillionea 45(6-8): 42.

**Original Combination:** [*Colias interior*] *vividior*

**Type Locality:** "Wisconsin (Eagle River et Oneida)" [Vilas and Outagamie counties]

**Types:** Holotype probably in MRAC (Berger collection).

= ‡"nepi" (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 89, no. 65.

**Original Combination:** *Eurymus interior* form [♀] *nepi*

**Type Locality:** "Nepigon [sic!], Ontario" [Nipigon, Thunder Bay County, Ontario]

**Types:** "Holotype" in USNM.

‡"solivaga" W. H. Edwards, 1877

Trans. Am. Entomol. Soc. 6(1): 17, under no. 68.

**Original Combination:** *Colias Solivaga*

Published in the synonymy of *interior* without a description or indication; a *nomen nudum*.

‡"alba" Scott, 1986

Butts. N. Am.: 199, no. 39.

**Original Combination:** [*Colias interior*] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

\*356. ***Colias palaeno*** (Linnaeus, 1761)

Fauna Svecica (ed. 2): 272, no. 1041.

**Original Combination:** *Papilio* [*Heliconius*] *Palaeno*

**Type Locality:** "Pteride rarissime Uppsaliae, frequentior in Finlandia" [Sweden and Finland]

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 357.

= *philomene* Hübner, [1805]

Samml. europ. Schmett. 1: pl. 117, figs. 602 ♂ D, 603 ♂ V [1805]; pl. 147, figs. 740 ♀ D, 741 ♀ V [1816].

**Original Combination:** [*Papilio*] *Philomene*

**Type Locality:** "Lappland" [Norway and Sweden]

**Types:** Location of type(s) not known, probably lost.



- = *lapponica* Staudinger, 1871  
*In*: Staudinger and Wocke, Cat. Lepid. Europ. (2nd ed.): 5, no. 58a; cited Herrich-Schäffer (1848), Syst. Bearb. Schmett. Europa 1(36): pl. 85, figs. 403 ♀ D, 404 ♀ V.  
**Original Combination**: [*Colias Palaeno*] v. *Lapponica*  
**Type Locality**: "Lap. Ross. s." [Murmanskaya Oblast, Russia]  
**Types**: Location of type(s) not known.
- a. *Colias palaeno chippewa* W. H. Edwards, 1870  
 Syn. Butts. N. Am.: 8, no. 15.  
**Original Combination**: *Colias Chippewa*  
**Type Locality**: "Great Slave Lake" [Northwest Territories]  
 Proposed to replace *Colias helena* W. H. Edwards, 1863, preoccupied, with the same data (Code Article 60.3).  
 Some authors have treated *chippewa* as a species distinct from *palaeno* (e.g., Macy (1986), Mitt. Arbeitsg. westfälischer Lepid. Entomol. Ver. Beiheft 1: 70, Tuzov (1996), Actias 2(1/2): 106). These have been anecdotal and a thorough analysis of taxa occurring on both sides of the Bering Straits is necessary; see Grieshuber and Worthy (2004), Helios 5: 32-36.
- = ‡*helena* W. H. Edwards, 1863  
 Proc. Entomol. Soc. Philad. 2[2]: 78, 80, no. 3; figured by W. H. Edwards (1868), Butts. N. Am. [1](2): pl. *Colias* 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.  
**Original Combination**: *Colias Helena*  
**Type Locality**: "Mackenzie's River"; lectotype from "Slave Lake"; defined as "near the west end of Great Slave Lake, North West Territory, Canada" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 54.  
**Types**: Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 55, fig. 11 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 68, fig. 31 ♀ D.  
 Preoccupied by *Colias helena* Herrich-Schäffer, 1844, Europ. Schmett. 1(7): pl. 45, figs. 206-207.
- = *gomojunovae* Korshunov, 1996  
 Add. corr. Diurn. Asiatic Russia: 38.  
**Original Combination**: *Colias palaeno gomojunovae*  
**Type Locality**: "[Bilibino District, Magadan Oblast, Chukotka Autonomous Okrug, Russia, Russia]"  
**Types**: Holotype in SZMN.
- = ‡"kohlsaati" (Gunder, 1931)  
 Bull. South. Calif. Acad. Sci. 30(2): 45.  
**Original Combination**: *Eurymus chippewa* form ♀ *kohlsaati*  
**Type Locality**: "Mt. McKinley Nat. Park, Alaska." [Denali National Park]  
**Types**: "Holotype" in AMNH.
- b. *Colias palaeno baffinensis* Ebner & Ferris, [1978]  
 J. Res. Lepid. 16(3): 156, 159-160, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination**: *Colias palaeno baffinensis*  
**Type Locality**: "Frobisher Bay, Baffin Island, N. W. T., Canada" [Nunavut]  
**Types**: Holotype in AMNH.
357. *Colias behrii* W. H. Edwards, 1866  
 Proc. Entomol. Soc. Philad. 6(2): 200, 201, no. 2; figured by W. H. Edwards (1868), Butts. N. Am. [1](2): pl. *Colias* 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.  
**Original Combination**: *Colias Behrii*  
**Type Locality**: "Yo Semite Mountains at an elevation of about 10,000 feet above the sea"; defined as "vicinity of Tioga Pass, Tuolumne-Mono counties, California" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 51-52.  
**Types**: Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 299, pl. 36, fig. 17 ♂ D, as "type"; figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 52, fig. 10 ♂ D&V.  
 = ‡"canescens" (J. A. Comstock, 1925)  
 Bull. South. Calif. Acad. Sci. 24(1): 3; 25(2): pl. 16, fig. 4 ♀ D ("holotype").  
**Original Combination**: *Eurymus behrii* form *canescens*  
**Type Locality**: "Tioga Pass, Yosemite, Calif." [Tuolumne-Mono counties, California]  
**Types**: "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 16, fig. 4 ♀ D.  
 The text clearly indicates that this taxon was described for the whitish female form.

#### Genus *Zerene* Hübner, [1819]

Verz. bekannt. Schmett. (7): 97. Type-species: *Papilio cesonia* Stoll, 1790, Aanhangs. Werk Utit. Kapellen Pieter Cramer (3): 176-177, pl. 41, figs. 2, 2b; 182 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 59. Pollock *et al.* (1998), Ann. Entomol. Soc. Am. 91(5): 524-531, suggested that *Colias* and *Zerene* may be sister taxa.

= ‡*Megonostoma* Reakirt, [1864]

Proc. Entomol. Soc. Philad. 2[3]: 356. Type-species: *Papilio cesonia* Stoll, 1790, Aanhangs. Werk Utit. Kapellen Pieter Cramer (3): 176-177, pl. 41, figs. 2, 2b; [182] (index), by designation of Butler (1870), Cist. Entomol. 1(3): 46. A junior objective synonym of *Zerene* Hübner, [1819].

#### 358. *Zerene cesonia* (Stoll, 1790)

a. *Zerene cesonia cesonia* (Stoll, 1790)

Aanhangs. Werk Utit. Kapellen Pieter Cramer (3): 176-177, pl. 41, figs. 2 ♂ D, 2B ♂ V; [182] (index).

**Original Combination**: *Pap[ilio]. Dan[aus]. Cand[idus] Cesonia*

**Type Locality:** “Georgien in Noord-America” “Georgie, dans l’Amerique Septentrionale” [Georgia]

**Types:** Syntype(s) probably in RMNH (Raye van Breukelerwaerth collection), as noted by Lamas (1993), Shilap Revta. Lepid. 21 (83): 144, no. 28.

This name was spelled “sesonia” in the French text (p. 176), representing an incorrect original spelling (it is spelled *cesonia* in the Dutch text and index); it has widely been misspelled as “*caesonia*,” attributable to Godart (1819), *in*: Ency. méth. 9 (Ins.) (1): 98, no. 31.

= *philippa* (Fabricius, 1793)

Entomol. Syst. 3 (1): 211, no. 660.

**Original Combination:** *P[apilio]. D[anaus]. Philippa*

**Type locality:** Not stated.

**Types:** Type(s) probably lost.

= *centralamericana* (Röber, 1909)

*In*: Seitz, Grossschmett. Erde 5 (29): 93.

**Original Combination:** [*Maganostoma* [sic!] *cesonia*] *centralamericana*

**Type Locality:** Not stated; lectotype from “Honduras.”

**Types:** Lectotype in ZMHB, designated by Lamas (1993), Revta Lepid. 21 (83): 144, no. 28.

= *rosea* (Röber, 1909)

*In*: Seitz, Grossschmett. Erde 5 (29): 94.

**Original Combination:** [*Maganostoma* [sic!] *cesonia*] *rosea*

**Type Locality:** “Colorado”

**Types:** Lectotype in ZMHB, designated by Lamas (1993), Revta Lepid. 21 (83): 152, no. 110.

= ♀ “rosa” (M’Neill, 1889)

Can. Entomol. 21 (3): 43-45.

**Original Combination:** [*Colias caesonia*] [female...dimorphic or...aberrant form] *rosa*

**Type Locality:** “low-lying field, on the banks of the Mississippi, three miles east of Moline” [Rock Island County, Illinois]

**Types:** Type(s) probably lost.

= ♀ “*immaculsecunda*” Gunder, 1928

Pan-Pac. Entomol. 4 (3): 102, pl. 2, top row, left (“holotype”), bottom row, left.

**Original Combination:** *Zerene caesonia immaculsecunda* form ♀

**Type Locality:** “Pinery Canyon, Arizona” [Cochise County]

**Types:** “Holotype” in AMNH.

Neck (1981), J. Lepid. Soc. 35 (1): 223-224, determined that this name probably represents a migratory form.

= ♀ “*stainkeae*” (W. D. Field, 1936)

J. Entomol. & Zool. 28 (2): 20.

**Original Combination:** *Colias (Zerene) caesonia* tr. f. *stainkeae*

**Type Locality:** “Donna, Texas” [Hidalgo County]

**Types:** “Holotype” in USNM.

= ♀ “*albida*” Vázquez, 1949

An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 19 (2): 470-471.

**Original Combination:** *Zerene caesonia* f[orma]. *albida*

**Type Locality:** “Tierra Blanca, Ver.” [Veracruz, Mexico]

**Types:** “Holotype” in MGCL.

359. *Zerene eurydice* (Boisduval, 1855)

Bull. Soc. Entomol. Fr. (3) 3 (1): xxxii.

**Original Combination:** *Colias Eurydice*

**Type Locality:** “des montagnes de la Californie”; defined as “vicinity of Alpine Dam, Lagunitas Creek, Marin County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 23, figs. 156 ♂ D, 157 ♂ V.

= *lorquini* (Boisduval, 1855)

Bull. Soc. Entomol. Fr. (3) 3 (1): xxxii.

**Original Combination:** *Rhodocera Lorquini*

**Type Locality:** “des montagnes de la Californie”; defined as “vicinity of Alpine Dam, Lagunitas Creek, Marin County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 24.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 24, figs. 156 ♂ D, 157 ♂ V.

= *wosnesenskii* (Ménétriés, 1855)

Enum. corp. anim. (1): 14 (as *wosnesenskii*); 77-78, no. 253 (as *wosnesenskii*), pl. 1, fig. 4 ♂ D&V (as *wosnesenskii*).

**Original Combination:** *Colias Wosnesenskii*

**Type Locality:** “Nouvelle Californie” [California]

**Types:** Syntype(s) should be in ZIN.

Lamas (2004d), Atl. Neotrop. Lepid. Chcklst. Part 4A: 103, made a first reviser choice of *wosnesenskii* over *wosnesenskii*.

= *helenae* (Reakirt, [1864])

Proc. Entomol. Soc. Philad. 2 [3]: 358, no. 2.

**Original Combination:** *Megonostoma Helena*

**Type Locality:** “?Chiapas” probably in error.

**Types:** Syntype in FMNH.

= *bernardino* (W. H. Edwards, 1887)

Butts. N. Am. 3 (1): [71-72], pl. *Colias* 1, figs. 1 ♂ D, 2 ♂ V (lectotype), 3 ♀ D.

**Original Combination:** [*Colias Eurydice*] Bernardino

**Type Locality:** "San Bernardino" [San Bernardino County, California]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 97, fig. 23 ♂ D&V.

It is possible that this name was intended for an infrasubspecific form, but this is not clear from the text.

= ♀ "amorphae" (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. 117(12): 169.

**Original Combination:** *C[olias]. eurydice* Var. *Amorphae*

**Type Locality:** "Mendocino County" [California]

**Types:** "Holotype" in AMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "fanniae" Gunder, 1924

Entomol. News 35(5): 158, pl. 2, fig. K ♂ D ("holotype").

**Original Combination:** *Zerene eurydice* ab. ♂ *fanniae*

**Type Locality:** "San Bernardino Mts., San Bernardino Co., California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 12, fig. 8 ♂ D.

= ♀ "newcombi" Gunder, 1925

Entomol. News 36(1): 4, no. 7, pl. 1, fig. R ♂ D ("holotype").

**Original Combination:** *Zerene eurydice* ab. ♂ *newcombi*

**Type Locality:** "San Bernardino Mountains, San Bernardino County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 12, fig. 10 ♂ D.

= ♀ "masumbrosus" Gunder, 1928

Pan-Pac. Entomol. 4(3): 100-101, pl. 1, figs. 1-6 ♀ D; fig. 3 ("holotype").

**Original Combination:** *Zerene eurydice masumbrosus* form ♀

**Type Locality:** "California"

**Types:** "Holotype" in AMNH.

= "lineainita" Gunder, 1928

Pan-Pac. Entomol. 4(3): 101-102, pl. 1, top row, fifth ("holotype").

**Original Combination:** *Zerene eurydice lineainita* form ♂

**Type Locality:** "San Bernardino mountains, California" [San Bernardino and Riverside counties]

**Types:** "Holotype" in AMNH.

= ♀ "doudoroffi" Gunder, 1932

Pan-Pac. Entomol. 8(3): 125.

**Original Combination:** *Zerene eurydice* tr. f. *doudoroffi*

**Type Locality:** "Lake Alpine, Fairfax, Marin County, California"

**Types:** "Holotype" in AMNH.

= ♀ "nigrocapitata" Riddell, 1941

Trans. R. Entomol. Soc. Lond. 91(9): 452 pl. 1, fig. 4 ♀ D ("holotype").

**Original combination:** *Zerene eurydice* ab. *nigrocapitata*

**Type Locality:** "California: Mill Creek Canyon, San Bernardino Mountains...5000 feet" [San Bernardino County]

**Types:** "Holotype" in CAS.

= ♀ "marginata" Riddell, 1941

Trans. R. Entomol. Soc. Lond. 91(9): 453, pl. 1, fig. 6 ♀ D ("holotype").

**Original Combination:** *Zerene eurydice* form *marginata*

**Type Locality:** "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]

**Types:** "Holotype" in CAS.

= ♀ "flavolineata" Riddell, 1941

Trans. R. Entomol. Soc. Lond. 91(9): 454, pl. 2, fig. 1 ♂ D ("holotype").

**Original Combination:** *Zerene eurydice* ab. *flavolineata*

**Type Locality:** "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]

**Types:** "Holotype" in CAS.

= ♀ "rubrosuffusa" Riddell 1941

Trans. R. Entomol. Soc. Lond. 91(9): 452, pl. 2, figs. 8 ♂ V ("holotype"), 9 ♂ D, pl. 3, fig. 7 ♂ V.

**Original Combination:** *Zerene eurydice* form *rubrosuffusa*

**Type Locality:** "California: San Bernardino Mountains, 5000 feet above sea level" [San Bernardino and Riverside counties]

**Types:** "Holotype" in CAS.

♀ "alba" (Scott, 1986)

Butts. N. Am.: 202, no. 45.

**Original Combination:** [*Colias eurydice*] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

#### Genus *Anteos* Hübner, [1819]

Verz. bekannt. Schmett. (7): 99. Type-species: *Papilio maerula* Fabricius, 1775, Syst. Entomol.: 479, no. 157, by designation of Godman and Salvin (1889), Biol. centr.-amer., Lepid. Rhop. 2(79): 148.



- = ‡*Amyntia* Swainson, 1831  
Zool. Illustr. (2)2(14): pl. 65 [actually 63], unnumbered text. Type-species: *Papilio maerula* Fabricius, 1775, Syst. Entomol.: 479, no. 157, by original designation. A junior objective synonym of *Anteos* Hübner, [1819].
- = *Klotsius* Hemming, 1964  
Annot. Lepid. (4): 148. Type-species: *Mancipium menippe* Hübner, [1818], Samml. exot. Schmett. 1: pl. [147], figs. 1, 2, by original designation.
360. **Anteos clorinde** (Godart, [1824])  
*In*: Ency. méth. 9(Ins.) (2): 813-814, nos. 1-2.  
**Original Combination:** *Colias Clorinde*  
**Type Locality:** "Brésil" [Brazil]  
**Types:** Syntype(s) in MNHP.
- = *swainsonia* (Swainson, 1831)  
Zool. Illustr. (2)2(14): pl. 65 [actually 63] ♂ D&V, unnumbered text.  
**Original Combination:** *Amyntia Swainsonia*  
**Type Locality:** "interior of Pernambuco...Brazil"  
**Types:** Type(s) probably lost; collection auctioned in 1840.
- = *godarti* (Perty, 1833)  
Delect. Anim. Art. Bras. (3): 152, pl. 29, figs. 4 ♂ D, 4b ♂ V.  
**Original Combination:** *Colias Godarti*  
**Type Locality:** "Piauhy" [Piauí, Brazil]  
**Types:** Location of type(s) not known, probably lost.
- = *nivifera* (Fruhstorfer, 1907)  
Stettiner Entomol. Ztg. 68(2): 294.  
**Original Combination:** [*Rhodocera*] *maerula nivifera*  
**Type Locality:** "Honduras"  
**Types:** Type(s) may be in ZSMC or BMNH.
- = ‡*atromarginatus* Vázquez, 1952  
An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 22(2): 535, fig. 1 ♀ D ("holotype").  
**Original Combination:** *Anteos clorinde* I[orma]. fem[inina]. *atromarginatus*  
**Type Locality:** "Tierra Blanca, Ver." [Veracruz, Mexico]  
**Types:** "Syntypes" in MGCL.
361. **Anteos maerula** (Fabricius, 1775)  
Syst. Entomol.: 479, no. 157.  
**Original Combination:** *P[apilio]. D[anaus]. C[andidus]. Maerula*  
**Type Locality:** "America. Mus. D. Hunter"; provisionally determined be "Jamaica" by D. Bates (1935), Bull. Harvard Mus. Comp. Zool. 78(2): 139; stated as "probably Jamaica" by Klots (1951), Field Guide Butts. N. Am.: 190.  
**Types:** Syntypes in HMUG.
- = *lacordairei* (Boisduval, 1836)  
Spec. gén. Lépid. 1: 600, no. 3.  
**Original Combination:** *Rhodocera Lacordairei*  
**Type Locality:** "Mexique" [Mexico]  
**Types:** Syntype in MNHP.  
As first revisers, L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 85, accorded precedence to *lacordairei* over *gueneana*.
- = *gueneana* (Boisduval, 1836)  
Spec. gén. Lépid. 1: 601, no. 5.  
**Original Combination:** *Rhodocera Gueneana*  
**Type Locality:** "Mexique" [Mexico]  
**Types:** Syntype in BMNH.
- = ‡*flava* (Röber, 1909)  
*In*: Seitz, Grossschmett. Erde 5(26): 89.  
**Original Combination:** [*Gonepteryx maerula*] ab. *flava*  
**Type Locality:** Not stated; lectotype from "Cuba."  
**Types:** "Lectotype in MTD, designated by Lamas (1995), Shilap Revta. Lepid. 23(91): 344.

Genus *Phoebis* Hübner, [1819]

- Verz. bekannt. Schmett. (7): 98. Type-species: *Phoebis cypris* Hübner, [1819], Verz. bekannt. Schmett. (7): 98, no. 1044 (an unjustified emendation of *Papilio cypris* Cramer, 1777, Uitl. Kapellen 2(9): 5, pl. 99, figs. E, F; (16): 148 (index); = *Papilio argante* Fabricius, 1775, Syst. Entomol.: 470, no. 116; synonym), by designation of Butler (1873), Lepid. Exot. (13): 155.
- = ‡*Colias* Hübner, [1819]  
Verz. bekannt. Schmett. (7): 99. Type-species: *Papilio sennae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 470, no. 72, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 136. Preoccupied by *Colias* [Fabricius], 1807, *in*: Illiger, Mag. f. Insektenk. 6: 284.
- = *Callidryas* Boisduval & Le Conte, [1830]  
Hist. Lépid. Amér. sept. (8): 73. Type-species: *Papilio eubule* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 764, no. 102 (= *Papilio sennae*

Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 470, no. 72; synonym), by designation of Blanchard (1840), *in*: Castelnau, Hist. Nat. Ins. 3: 432.

= *Metura* Butler, 1873

Lepid. Exot. (13): 155. Type-species: *Callidryas bracteolata* Butler, 1865, Proc. Zool. Soc. Lond. 1865(2): 458, pl. 26, fig. 6 (= *Colias neocypris* Hübner, [1823], Samml. exot. Schmett. 2: pl. [136], figs. 1, 2; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 218, no. 695. Preoccupied by *Metura* Walker, 1855, *in*: Allen's Nat. Libr., Lepid. 2: 229.

= *Parura* W. F. Kirby, 1896

*In*: Allen, Nat. Libr. Lepid. 2: 229. Type-species: *Callidryas bracteolata* Butler, 1865, Proc. Zool. Soc. Lond. 1865(2): 458, pl. 26, fig. 6 (= *Colias neocypris* Hübner, [1823], Samml. exot. Schmett. 2: pl. [136], figs. 1, 2; synonym), as a replacement name. Proposed to replace *Metura* Butler, 1873, preoccupied (Code Articles 60.3, 67.8).

### 362. *Phoebis sennae* (Linnaeus, 1758)

#### a. *Phoebis sennae sennae* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 470, no. 72; cited Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. 236, figs. 11, 12, and Merian (1705), Ins. Surinam.: 58, pl. 58, among others.

**Original Combination:** *P[apilio]. D[anaus Candidus]. Sennae*

**Type Locality:** "in Cassia Americes"; possibly "Jamaica" from reference to Sloane.

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 379.

= *eubule* (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 764, no. 102; cited G. Edwards (1760) Glean. Nat. Hist. 2: pl. 304.

**Original Combination:** *P[apilio]. D[anaus Candidus] Eubule*

**Type Locality:** "Carolina"; suggested to be "vic. of Charleston, South Carolina" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86. [Charleston County]

**Types:** Type(s) apparently lost.

Lamas (2004d), Atl. Neotrop. Lepid. Chcklst. Part 4A: 104, determined this synonymy.

= *drya* (Fabricius, 1775)

Syst. Entomol.: 478, no. 153.

**Original Combination:** *P[apilio]. D[anaus]. C[andidus]. Drya*

**Type Locality:** "America"; suggested to be "vic. of Charleston, South Carolina" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86. [Charleston County]

**Types:** Type(s) probably lost.

= *palpida* (Cockerell, 1889)

Entomol. 22(308): 5; cited French (1886), Butts. E. U. S.: 122.

**Original Combination:** *Callidryas sennae palpida* ♀

**Type Locality:** Not stated.

**Types:** "Type" is apparently lost.

= *lichas* (d'Almeida, 1922)

Mélanges Lépid. 1: 56, no. 43; cited Boisduval and Le Conte [1830], Hist. Lépid. Amér. sept. (8): pl. 24, fig. 3 ♀ V.

**Original Combination:** [*Catopsilia Eubule*] Form. aberr. *Lichas*

**Type Locality:** Not specifically stated, but probably "Georgia" based on the figures by John Abbot in Boisduval and Le Conte.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. A "syntype" is in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such "types" from the Boisduval collection.

= *sennalba* F. Brown, 1929

Am. Mus. Novit. (368): 8-9.

**Original Combination:** *Phoebis eubule sennae* female form *sennalba*

**Type Locality:** "7 kilometers north of Viñales, Cuba" [Pinar del Rio]

**Types:** "Holotype" in AMNH.

= *browni* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 20.

**Original Combination:** *Phoebis sennae* race *eubule* female f. *browni*

**Type Locality:** "Lawrence, Kansas" [Douglas County]

**Types:** "Holotype" in USNM.

*alba* Scott, 1986

Butts. N. Am.: 204, no. 50.

**Original Combination:** [*Phoebis sennae* ♀] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

*rosa* Scott, 1986

Butts. N. Am.: 204, no. 50.

**Original Combination:** [*Phoebis sennae*] winter form *rosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

#### b. *Phoebis sennae marcellina* (Cramer, 1777)

Uitl. Kapellen 2(14): 103, pl. 163, fig. C (A ♀ D, B ♀ V, C ♂ V); (16): 149 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Marcellina*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Syntypes (#665067, 665068) in BMNH.

- = *hyperici* (Sepp, [1832])  
Surinaam. Vlinders [1] (5): 45, pl. 19.  
**Original Combination:** *Papilio Hyperici*  
**Type Locality:** "Surinam" implied from the title of the work.  
**Types:** Type(s) lost.
- = *rhadia* (Boisduval, 1836)  
Spec. gén. Lépid. 1: 617, no. 11.  
**Original Combination:** *Callidryas Rhadia*  
**Type Locality:** "Senegal, île Maurice" in error. [Republic of Senegal, West Africa]  
**Types:** Syntypes in BMNH.
- = *yamana* (Reakirt, [1864])  
Proc. Entomol. Soc. Philad. 2[3]: 352, no. 3.  
**Original Combination:** *C[allidryas]*. *Yamana*  
**Type Locality:** "Honduras"  
**Types:** Type(s) may be in CMNH or lost.
- = *schausi* (Oberthür, 1912)  
Étud. Lépid. Comp. 6: 328, pl. 126, fig. 1116 ♂ D&V ("holotype").  
**Original Combination:** *Callidryas Eubule-Schausi*  
**Type Locality:** "Nouvelle- Fribourg" [Nova Friburgo, Rio de Janeiro, Brazil]  
**Types:** "Holotype" in BMNH.  
The text clearly indicates that this taxon was described as an individual variant.
- = *fugax* (d'Almeida, 1922)  
Mélanges Lépid. 1: 57-58, no. 44; figured by d'Almeida (1940), Arq. Zool. São Paulo 1(3): pl. 4, fig. 7.  
**Original Combination:** [*Catopsilia Eubule*] form. *Fugax*  
**Type Locality:** Not stated; "neotype" from "Piedade, rio de Janeiro." [Brazil]  
**Types:** "Neotype" (#1089) in UFPC, designated by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 323, fig. 2 ♂ D&V, but this designation was not in accordance with Code Articles 75.2 and 75.3.  
The text clearly indicates that this taxon was described as an individual variant.
- = *giacomellii* Köhler, 1923  
Z. wiss. InsektBiol. 18(12) (Sonderheft): 16, unnumbered fig. ♀ V.  
**Original Combination:** *Catopsilia eubule* f. *Giacomellii*  
**Type Locality:** "La Rioja" [Argentina]  
**Types:** "Syntype" in MLP.
- = *minor* Dufrane, 1947  
Bull. Annls. Soc. Entomol. Belg. 83(1/2): 64.  
**Original Combination:** [*Phoebis sennae marcellina*] *minor*  
**Type Locality:** Not stated; "lectotype" from "Bolivia."  
**Types:** "Lectotype" in IRSN, designated by Lamas (1981), Revta. Cienc. (Lima) 73(1): 58.
- = *albescens* Dufrane, 1947  
Bull. Annls. Soc. Entomol. Belg. 83(1/2): 64.  
**Original Combination:** [*Phoebis sennae marcellina*] ab. *albescens*  
**Type Locality:** "Brésil, sans nom de localité"  
**Types:** "Holotype" in IRSN.
- = *major* Dufrane, 1947  
Bull. Annls. Soc. Entomol. Belg. 83(1/2): 65.  
**Original Combination:** [*Phoebis sennae marcellina*] *major*  
**Type Locality:** "Brésil, sans nom de localité"; lectotype from "Peru."  
**Types:** "Lectotype" in IRSN, designated by Lamas (1981), Revta. Cienc. (Lima) 73(1): 56.

363. **Phoebis argante** (Fabricius, 1775)a. **Phoebis argante argante** (Fabricius, 1775)

- Syst. Entomol.: 470, no. 116.  
**Original Combination:** *P[apilio]*. *D[anaus]*. *C[andidus]*. *Argante*  
**Type Locality:** "Brasilia. Mus. Banks" L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 191, noted that Banks visited Rio de Janeiro.  
**Types:** Syntype in BMNH.
- = *cipris* (Cramer, 1777)  
Uitl. Kapellen 2(9): 5, pl. 99, figs. E ♀ D, F ♀ V; (16): 148 (index).  
**Original Combination:** *Pap[ilio]*. *Dan[aus]*. *Candidi Cipris*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Syntypes (#665064, 665065) in BMNH.
- = *volcanica* (Perry, 1811)  
Arcana 1: [161], pl. [83].  
**Original Combination:** *Papilio Volcanica*  
**Type Locality:** "Rio de la Plata" [Argentina]  
**Types:** Types probably lost.
- = *cnidia* (Godart, 1819)  
In: Ency. méth. 9(Ins.) (1): (86), 93-94, no. 14; cited *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): pl. 99, figs. E, F,



and Herbst (1792), in: Jablonsky, Natursyst. Ins., Schmett. 5: pl. 111, figs. 3, 4.

**Original Combination:** *Colias Cnidia*

Proposed to replace *Papilio cipris* Cramer, 1777, erroneously thought preoccupied.

= *cypris* (Hübner, [1819])

Verz. bekannt. Schmett. (7): 98, no. 1044; cited *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): pl. 99, figs. E, F.

**Original Combination:** *P[hoebis]. Cypris*

An unjustified emendation of *Papilio cipris*.

= *aurantia* Larrañaga, 1923

Ecrit. Larrañaga. publica Instit. Hist. Geogr. Uruguay: 418.

**Original Combination:** *Papilio aurantia*

**Type Locality:** "frequens in floribus civitatis" [frequent at flowers in the city of Montevideo, Uruguay]

**Types:** Type(s) lost.

= *albante* F. Brown, 1929

Am. Mus. Novit. (368): 13.

**Original Combination:** *Phoebis argante argante* female form *albante*

**Type Locality:** "Tegucigalpa, Honduras"

**Types:** "Holotype" in AMNH.

*albata* Scott, 1986

Butts. N. Am.: 205, no. 52.

**Original Combination:** [*Phoebis argante* ♀] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

364. **Phoebis agarithe** (Boisduval, 1836)

a. **Phoebis agarithe fisheri** (Hy. Edwards, 1883)

Papilio 3(2): 43.

**Original Combination:** *Callidryas Fisheri*

**Type Locality:** "La Paz, Lower California" [Baja California Sur, Mexico]

**Types:** Holotype in AMNH.

b. **Phoebis agarithe agarithe** (Boisduval, 1836)

Spec. gén. Lépid. 1: 623, no. 16.

**Original Combination:** *Callidryas Agarithe*

**Type Locality:** "Mexique"

**Types:** Syntype in USNM.

= *albarithe* F. Brown, 1929

Am. Mus. Novit. (368): 16.

**Original Combination:** *Phoebis agarithe maxima* female form *albarithe*

**Type Locality:** "Jalapa, Mexico" [Veracruz]

**Types:** "Holotype" in AMNH.

c. **Phoebis agarithe maxima** (Neumoegen, 1891)

Can. Entomol. 23(6): 122.

**Original Combination:** *Catopsilia agarithe* var. *Maxima*

**Type Locality:** "Upper Indian River, Fla." [Brevard County, Florida]

**Types:** Lectotype in USNM, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 146, no. 50.

= *floridensis* (Röber, 1909)

In: Seitz, Grossschmett. Erde 5(26): 87.

**Original Combination:** [*Catopsilia argante*] *floridensis*

**Type Locality:** "Floriden"; lectotype from "Miami." [Miami-Dade County]

**Types:** Lectotype in MTD, designated by Lamas (1993), Shilap Revta. Lepid. 21(83): 146, no. 50.

Preoccupied by *Catopsilia neleis* var. *floridensis* Neumoegen, 1891, Can. Entomol. 23(6): 122.

*alba* Scott, 1986

Butts. N. Am.: 204, no. 51.

**Original Combination:** [*Phoebis agarithe* ♀] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

365. **Phoebis philea** (Linnaeus, 1763)

a. **Phoebis philea philea** (Linnaeus, 1763)

In: Johansson, Cent. Ins. Rar.: 21, no. 59; cited Kleeman (1761), Beytr. Nat. Ins., in: Rösel, Monatschr. Ins. Belust. 4: pl. 3, fig. 5; often cited as published in Amoen. acad. 6: 404, no. 59, a subsequent reprint.

**Original Combination:** *Papilio D[anaus]. Philea*.

**Type Locality:** "Indiis"; suggested to be "Surinam" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 86.

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 363.

= *aricye* (Cramer, 1776)

Uitl. Kapellen 1(8): 147, pl. 94, figs. A ♂ D, B ♂ V; (8): 151 (index).

**Original Combination:** *Pap[ilio]. Dan[aus] Candidi Aricye*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

Godart (1819), in: Ency. méth. 9(Ins.)(1): (86), 94, unjustifiably emended this to "*aricia*" and on page 94 misspelled it "*aricie*."

= *melanippe* (Stoll, 1781)

Uitl. Kapellen 4(31): 139-140, pl. 361, figs. E ♀ D, F ♀ V; (34): 250 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Melanippe*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

= *corday* (Hübner, [1819])

Verz. bekannt. Schmett. (7): 99, no. 1053; cited *Papilio philea* Cramer, 1777, Uitl. Kapellen 2(15): pl. 173, figs. E, F, and *Mancipium argante* Hübner [1814], Samml. exot. Schmett. 1: pl. [145].

**Original Combination:** *Colias Corday*

**Type Locality:** "Surinamen" "Suriname" implied from the reference to Cramer.

**Types:** Type(s) probably lost.

= *lollia* (Godart, 1819)

In: Ency. méth. 9(Ins.) (1): (86), 94, no. 15.

**Original Combination:** *Colias Lollia*

**Type Locality:** Not stated.

**Types:** Type(s) may be in MNHP.

= ‡"obsoleta" (Niepelt, 1920)

Int. Entomol. Z. 14(3): 17.

**Original Combination:** [*Catopsilia philea*] ♀ v. *obsoleta*

**Type Locality:** "Carillo, Costa Rica"

**Types:** "Holotype" in BMNH.

= ‡"irma" Krüger, 1929

Int. Entomol. Z. 23(4): 59.

**Original Combination:** *Catopsilia philea* ♀ ab. *irma*

**Type Locality:** "Nord-Peru"

**Types:** "Holotype" possibly in ZMUH (Krüger collection).

= ‡"inornata" Dufrane, 1947

Bull. Annl. Soc. Entomol. Belg. 83(1/2): 65.

**Original Combination:** [*Phoebis philea philea*] ab. *inornata*

**Type Locality:** "Rio-de-Janeiro" [Brazil]

**Types:** "Holotype" in IRSN.

= ‡"androchroma" Bryk, 1953

Ark. Zool. (n.s.) 5(1): 17, no. 29b.

**Original Combination:** *Phoebis philea* fa. *androchroma*

**Type Locality:** "Roque" [Peru]

**Types:** "Syntypes" in NHRS.

‡"alamacho" Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Phoebis philea* form *alamacho*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"crema" Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Phoebis philea* form *crema*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"alba" Scott, 1986

Butts. N. Am.: 205, no. 53.

**Original Combination:** [*Phoebis philea* ♀] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

\*366. **Phoebis neocypris** (Hübner, [1823])

Samml. exot. Schmett. 2: pl. [136], figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Colias Neocypris*

**Type Locality:** Not stated; suggested to be "Brasilia" by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 84.

**Types:** Type(s) probably lost.

= ‡*cipris* (Fabricius, 1793)

Entomol. Syst. 3(1): 212, no. 663; cited Jones' Icones 3: pl. 39, fig. 1.

**Original Combination:** *P[apilio]. D[anaus]. Cipris*

**Type locality:** Not stated.

**Types:** Type(s) probably lost.

Preoccupied by *Papilio cipris* Cramer, 1777, Uitl. Kapellen 2(9): 5, pl. 99, figs. E, F.

= *bracteolata* (Butler, 1865)

Proc. Zool. Soc. Lond. 1865(2): 458, no. 6, pl. 26, fig. 6 ♀ D&V.

**Original Combination:** *Callidryas bracteolata*

**Type Locality:** "Brazil"

**Types:** Syntype in BMNH.

= *irrigata* (Butler, 1870)

Trans. Entomol. Soc. Lond. (4)1870[18](1): 9-10, no. 2; figured by Butler (1871), Lepid. Exot. (3): 67, no. 19, pl. 26, figs. 1 ♀ D, 2 ♀ V.

**Original Combination:** *Callidryas irrigata*

**Type Locality:** "Brasil"; defined as "Ipaunema?, Brasil" by Butler (1871), *Lepid. Exot.* (3): 67. [Ipanema, Rio de Janeiro]

**Types:** Syntypes in BMNH.

a. ***Phoebis neocypris virgo*** (Butler, 1870)

*Trans. Entomol. Soc. Lond.* (4)1870[18](1): 9, no. 1; figured by Butler (1871), *Lepid. Exot.* (4): 75, pl. 29, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Callidryas virgo*

**Type Locality:** "Mexico...Mountains of Oaxaca (E Side)...San Geronimo (Vera Paz)...(?) Apolobamba"

**Types:** Syntypes in BMNH.

= *intermedia* (Butler, 1872)

*Cist. Entomol.* 1(4): 81; figured by Butler (1873), *Lepid. Exot.* (13): 153-154, no. 43, pl. 55, figs. 5 ♂ V, 6 ♀ V, 7 ♂ D, 8 ♀ D.

**Original Combination:** *Callidryas Intermedia*

**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.

**Types:** Syntype in BMNH.

= ‡"rubrofasciata" Vázquez, 1952

*An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.)* 22(2): 553, fig. 2 ("holotype").

**Original Combination:** [*Phoebis intermedia*] f[orma]. fem[inina]. *rubrofasciata*

**Type Locality:** "Malinalco, Méx." [Mexico State, Mexico]

**Types:** "Holotype" in MGCL.

‡"alba" Scott, 1986

*Butts. N. Am.*: 206, no. 54.

**Original Combination:** [*Phoebis intermedia* ♀] form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

### Genus *Aphrissa* Butler, 1873

*Lepid. Exot.* (13): 155. Type-species: *Papilio statira* Cramer, 1777, *Uitl. Kapellen* 2(10): 35, pl. 120, figs. C, D; (16): 150 (index), by original designation.

367. ***Aphrissa statira*** (Cramer, 1777)

a. ***Aphrissa statira statira*** (Cramer, 1777)

*Uitl. Kapellen* 2(10): 35, pl. 120, figs. C ♀ D, D ♀ V; 2(16): 150 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Statira*

**Type Locality:** "Kust van Coromandel, en te Tránquebar" "Côte de Coromandel & à Tranquebar" in error; suggested to be "Surinam" by L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* (2): 87; "neotype" from "Pará." [Brazil]

**Types:** Type(s) probably lost; d'Almeida (1945), *Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo)* 6(21): 239, designated "neotypes"; Mielke and Casagrande (1985), *Revta. bras. Entomol.* 29(2): 328, fig. 4 ♂ D&V, designated one of these as the neotype (#1282) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

= *evadne* (Godart, 1819)

*In: Ency. méth.* 9(Ins.)(1): (87), 98, no. 28; cited *Papilio alcmeone* Cramer, 1777, *Uitl. Kapellen* 2(12): pl. 141, fig. E, and Herbst (1792), *in: Jablonsky, Natursyst. Ins., Schmett.* 5: pl. 104, fig. 3.

**Original Combination:** *Colias Evadne*

**Type Locality:** "Brésil"

**Types:** Type(s) probably at MNHP.

= *jada* (Butler, 1870)

*Trans. Entomol. Soc. Lond.* (4)1870[18](1): 11, no. 5; figured by Butler (1873), *Lepid. Exot.* (10): 144, pl. 51, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V, 10 ♀ V.

**Original Combination:** *Catopsilia Jada*

**Type Locality:** "Guatemala (Central Valleys)"

**Types:** Syntypes in BMNH.

= *inesa* Anken & Silva, 1996

*Facetta* (12): 5, figs. 1 ♂ D, 2b ♂ V.

**Original Combination:** *Aphrissa statira inesa*

**Type Locality:** "Brazil, Rio de Janeiro, Teresópolis"

**Types:** Holotype in Anken collection or ZSMC.

= ‡"pseudomas" (Giacomelli, 1911)

*An. Soc. Cient. Argent.* 72(1): 21, no. 2.

**Original Combination:** [*Catopsilia Statira*] hembra forma *pseudomas*

**Type Locality:** "en el Saladillo á dos leguasde la Rioja, á 800 metros" [La Rioja, Argentina]

**Types:** "Syntype" in MACN.

= ‡"stalba" F. Brown, 1931

*Am. Mus. Novit.* (454): 12.

**Original Combination:** *Aphrissa statira jada* female form *stalba*

**Type Locality:** "Truxillo district, Honduras"

**Types:** "Holotype" in AMNH.

‡"alba" Scott, 1986

*Butts. N. Am.*: 203, no. 48.

**Original Combination:** [*Phebis statira*] form *alba*



Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

‡“naranja” Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Phoebis statira* female form *naranja*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

b. *Aphrissa statira floridensis* (Neumoegen, 1891)

Can. Entomol. 23(6): 122.

**Original Combination:** *Catopsilia neleis* var. *floridensis*

**Type Locality:** “Upper Indian River of Florida” [Brevard County]

**Types:** Syntypes in USNM and MCZ.

368. *Aphrissa orbis* (Poey, 1832)

a. *Aphrissa orbis orbis* (Poey, 1832)

Cent. Lépid. Cuba (1): [1-3], [no. 1], pl. [1], figs. [1] ♀ D, [2] ♂ D, [3] larva, [4] ♀ V, [5] pupa.

**Original Combination:** *Calidryas Orbis*

**Type Locality:** “Cuba”

**Types:** Syntypes (#7767) in ANSP.

Subfamily **Pierinae** Swainson, 1820

Tribe **Anthocharidini** Scudder, 1889

Butts. E. U. S. & Can. (2)(8): 1039 (as “Anthocharidi”). Type-genus: *Anthocharis* Boisduval, Rambur & Graslin, [1833], Coll. icon. Hist. Chenilles Europ. (12): pl. Pap. 5; (13): pl. 35.

Genus **Anthocharis** Boisduval, Rambur, [Duménil] & Graslin, [1833]

Coll. icon. Hist. Chenilles Europ. (12): pl. Pap. 5; (13): 35. Type-species: *Papilio cardamines* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 63, by monotypy.

Subgenus **Anthocharis** Boisduval, Rambur, [Duménil] & Graslin, [1833]

= *Tetracharis* Grote, 1898

Proc. Am. Phil. Soc. 37(157): 37. Type-species: *Anthocharis cethura* C. Felder & R. Felder, 1865, Reise Novara (2): 182, no. 174, pl. 25, figs. 1, 2, by monotypy.

369. *Anthocharis cethura* C. Felder & R. Felder, 1865

a. *Anthocharis cethura catalina* Meadows, 1937

Bull. South. Calif. Acad. Sci. 35(3): 177.

**Original Combination:** *Anthocharis cethura* race *catalina*

**Type Locality:** “Grand Canyon...White’s Landing...Renton Mine...Salte Verde....Catalina Island, California”; defined as “ridge between Renton Mine and Jewfish Point at head of Pebbly Beach Canyon” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 75, but holotype is from “Grand Canyon,” as recorded by Orsak (1976), J. Res. Lepid. 14: 85, and S. Miller (1985), J. Res. Lepid. 23(4): 290.

**Types:** Holotype in LACM.

b. *Anthocharis cethura cethura* C. Felder & R. Felder, 1865

Reise Novara (2): 182, no. 174, pl. 25, figs. 1 ♀ D, 2 ♀ V.

**Original Combination:** *Anthocharis Cethura*

**Type Locality:** “Sonora”; defined as “vicinity of Los Angeles, Los Angeles County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88, figs. 8 ♀ D, 9 ♀ V.

= *cooperii* Behr, 1869

Trans. Am. Entomol. Soc. 2(3): 304.

**Original Combination:** *Anthocharis* [sic] *Cooperii*

**Type Locality:** “San Diego” [San Diego County, California]

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire.

= *angelina* Boisduval, 1869

Annls. Soc. Entomol. Belg. 12: 40, no. 12.

**Original Combination:** *Anthocharis Angelina*

**Type Locality:** “Los Angeles, dans le sud de la Californie”

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25, figs. 174 ♂ D, 175 ♂ V.

= *deserti* W. G. Wright, 1905

Butts. W. Coast: 50, no. 60; 106, pl. 7, figs. 60 ♂ D (lectotype), 60a ♂ D, 60aa ♂ V, 60b ♀ D, 60bb ♀ D, 60c ♀ V.

**Original Combination:** [*Anthocharis Cethura* var.] *Deserti*; *Anthocharis Deserti* n. v.

**Type Locality:** “Colorado Desert of California” “Garnet Knob, Desert...Caliente...Indian Wells”; lectotype from “Garnet Knob, Desert”; defined as “Palm Springs area” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (11): 132.

**Types:** Lectotype (#4282) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 9.

= *caliente* W. G. Wright, 1905

Butts. W. Coast: 50, no. 70; 112-113, pl. 8, fig. 70 ♀ D (holotype).

**Original Combination:** [*Anthocharis*] *Caliente*; *Anthocharis Caliente* n. s.

**Type Locality:** "Colorado Desert of California"; suggested to be "Palm Springs area" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (11): 132.

**Types:** Holotype (#4288) in CAS.

- c. *Anthocharis cethura morrisoni* W. H. Edwards, 1881

Papilio 1 (4): 43-44, no. 1.

**Original Combination:** *Anthocharis Morrisoni*

**Type Locality:** "Southern California"; corrected to "the barren mesa lands, particularly the summits of small hills near Kern River, Calif." by Morrison (1883), Papilio 3 (2): 43; lectotype from "Kern River, Kern County, California."

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99 (1): 49, fig. 8 ♂ D&V.

- d. *Anthocharis cethura hadromarmorata* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (11): 133, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Anthocharis cethura hadromarmorata*

**Type Locality:** "Nevada: Churchill County; 2 ½ road miles west of Junction US Highway 50 and US Highway Alternate 95 on US Highway 50, south end of Swingle Bench, 4100' elevation, T19N, R27E"

**Types:** Holotype in LACM.

- e. *Anthocharis cethura mojavenis* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (11): 131-132, 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Anthocharis cethura mojavenis*

**Type Locality:** "California: San Bernardino County, Providence Mountains, mouth of Bonanza King Mine Canyon, 4200' elevation, S3, T10N, R14E"

**Types:** Holotype in LACM.

- f. *Anthocharis cethura pima* W. H. Edwards, 1888

Can. Entomol. 20 (8): 158; figured by W. H. Edwards (1889), Butts. N. Am. 3 (7): pl. Anthocharis 2, figs. 6 ♂ D, 7 ♂ V, 8 ♀ D, 9 ♀ V.

**Original Combination:** *Anthocharis Pima*

**Type Locality:** "Pima County, Arizona"; redefined as "Arizona, Pima County, on the barren plains between Pontano and Tucson" by W. H. Edwards (1889), Butts. N. Am. 3 (7): [6]; subsequently defined as "Pantano, Pima County, Arizona" by F. Brown (1973), Trans. Am. Entomol. Soc. 99 (1): 45-46.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 287, pl. 32, fig. 33 ♂ D, as "type"; figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99 (1): 47, fig. 7 ♂ D&V.

The conspecific relationship between *cethura* and *pima* was first established by Rudkin (1936), Bull. South. Calif. Acad. Sci. 35 (1): 3-4. Additional works supporting this arrangement include T. Emmel and J. Emmel (1973), Los Angeles Co. Mus., Sci. Ser. 26: 22, Austin (1981), J. Res. Lepid. 19 (4): 242, Scott (1982), J. Res. Lepid. 20 (1): 61, Austin (1986), J. Lepid. Soc. 39 (2): 101, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (11): 132.

370. *Anthocharis sara* Lucas, 1852

Opler (1999), Field Guide W. Butts.: 159-161, recognized four species in this group: *sara* (including *gunderi*, *flora* and *alaskensis* as subspecies), *julia*, *stella* (including *browningi*), and *thoosa* (including *inghami* and *pseudothoosa*). His arrangement was at least in part based on Geiger and Shapiro (1986), J. Res. Lepid. 25 (1): 15-24, where *stella* and *julia* were suggested to be species-level taxa, based on electrophoretic evidence. Stout (2005), Bull. Utah Lepid. Soc. 12 (1): 5-9, 13, detailed larval and adult characters of various populations in this group, which do not entirely support Opler's arrangement. Until detailed research establishes species limits and distributions in this complex, all taxa are herein retained under *A. sara*.

- a. *Anthocharis sara gunderi* Ingham, 1933

Pan-Pac. Entomol. 9 (2): 75.

**Original Combination:** *Anthocharis sara gunderi*

**Type Locality:** "Middle Ranch, Santa Catalina Island, California" [Los Angeles County]

**Types:** Holotype in CAS.

This taxon was listed at the subspecies-level by S. Miller (1985), J. Res. Lepid. 23 (4): 290.

- b. *Anthocharis sara sara* Lucas, 1852

Revue Mag. Zool. (2) 4 (7): 339-340.

**Original Combination:** *Anthocharis Sara*

**Type Locality:** "Californie"; defined as "Queen Lily Campground, near Belden, North Fork Feather River, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 79.

**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 79, figs. 13 ♂ D, 14 ♂ V.

= *§sara* Boisdual, 1852

Annls. Soc. Entomol. Fr. (2) 10 (2): 285-286, no. 11.

**Original Combination:** *Anthocharis sara*

**Type Locality:** "dans une grande partie de la Californie"

**Types:** Syntypes in USNM.

Preoccupied by *Anthocharis sara* Lucas, 1852, Revue Mag. Zool. (2) 4 (7): 339-340.

= *reakirtii* W. H. Edwards, 1869

Trans. Am. Entomol. Soc. 2 (4): 369; figured by W. H. Edwards (1868), Butts. N. Am. [1] (2): pl. Anthocharis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Anthocharis Reakirtii*

**Type Locality:** "California"; defined as "vicinity of San Francisco, California" by F. Brown (1973), Trans. Am. Entomol. Soc. 99 (1): 39.



- Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 40-41, fig. 4 ♂ D&V.
- = *mollis* W. G. Wright, 1905  
Butts. W. Coast: 50, no. 67; 111, pl. 8, figs. 67 ♂ D (lectotype), 67b ♀ D.  
**Original Combination:** [*Anthocharis sara* var.] *Mollis*, *Anthocharis Mollis* n. v.  
**Type Locality:** "Southern California" "Riche Canyon, S. Cal....San Diego County"; lectotype from "Riche Canyon," believed to be "Reche Canyon, San Bernardino/Riverside counties" by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.  
**Types:** Lectotype (#4286) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.
- = *dammersi* J. A. Comstock, 1929  
Bull. South. Calif. Acad. Sci. 28(2): 33, pl. 18 (holotype).  
**Original Combination:** *Anthocharis dammersi*  
**Type Locality:** "Whitewater Canyon, Riverside County, California"  
**Types:** Holotype in LACM; figured by Howe (1975), Butts. N. Am.: pl. 71, fig. 8 ♂ D&V.  
The holotype is apparently a hybrid between *A. sara* and *A. lanceolata*; see Shields and Mori (1979), J. Res. Lepid. 17(1): 53-55, fig. 1 ♂ D&V, and Scott (1982), J. Res. Lepid. 20(1): 61.
- = ♂ "wrighti" J. A. Comstock, 1924  
Bull. South. Calif. Acad. Sci. 23(2): 52; 24(2): pl. 11, fig. 16 ♂ D ("holotype").  
**Original Combination:** *Anthocharis reakirti* ab. *Wrighti*  
**Type Locality:** "Chula Vista, California"  
**Types:** "Holotype" not in LACM, as stated in the original description; probably lost.
- = ♂ "sternitzkyi" Gunder, 1925  
Entomol. News 36(1): 4, no. 6, pl. 1, fig. Q ♂ D ("holotype").  
**Original Combination:** *Anthocharis sara* form *reakirti* ab. ♂ *sternitzkyi*  
**Type Locality:** "San Francisco, California" [San Francisco County]  
**Types:** "Holotype" in AMNH.
- = ♂ "corcorani" Gunder, 1931  
Bull. South. Calif. Acad. Sci. 30(2): 45.  
**Original Combination:** *Anthocharis sara* tr. f. *corcorani*  
**Type Locality:** "Griffith Park, Los Angeles, Calif." [Los Angeles County, California]  
**Types:** "Holotype" in LACM.
- = ♂ "broweri" Gunder, 1932  
Pan-Pac. Entomol. 8(3): 124.  
**Original Combination:** *Anthocharis sara* race *reakirti* tr. f. *broweri*  
**Type Locality:** "Peanut Hill, Berkely Hills, Alameda County, California"  
**Types:** "Holotype" in AMNH.
- = ♂ "flavicoloris" Gunder, [1934]  
Pan-Pac. Entomol. 9(4): 151-152.  
**Original Combination:** *Anthocharis sara reakirtii* tr. f. *flavicoloris*  
**Type Locality:** "Tocaloma, Marin County, California"  
**Types:** "Holotype" in AMNH.  
♂ "pallida" Scott, 1986  
Butts. N. Am.: 212, no. 68.  
**Original Combination:** [*Anthocharis sara*] form *pallida*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- c. ***Anthocharis sara flora*** W. G. Wright, 1892  
Can. Entomol. 24(6): 154-155; figured by W. G. Wright (1905), Butts. W. Coast, pl. 8, figs. 65 ♂ D (lectotype), 65b ♀ D.  
**Original Combination:** *A[nt]hocharis*. *Flora*  
**Type Locality:** "Western Washington"; corrected to "Tenino, Washington" by W. G. Wright (1905), Butts. W. Coast: 109. [Thurston County]  
**Types:** Lectotype (#3228) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 11.
- d. ***Anthocharis sara alaskensis*** Gunder, 1932  
Can. Entomol. 64(12): 277.  
**Original Combination:** *Anthocharis sara* race *alaskensis*  
**Type Locality:** "Skagway, Alaska"  
**Types:** Holotype in AMNH.
- e. ***Anthocharis sara stella*** W. H. Edwards, 1879  
Can. Entomol. 11(5): 87-88.  
**Original Combination:** *Anthocharis Stella*  
**Type Locality:** "Nevada...Lake Tahoe...Yo Semite"; defined as "Marlette Peak, Carson Range, Washoe County, Nevada" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 41, 42.  
**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 43, fig. 5 ♂ D&V.  
The recent application of the name *stella* to populations far away from its type locality (e.g. Opler (1999), Field Guide W. Butts.: 159-161, Layberry *et al.* (1998), Butts. Can.: 102-103; following McDunnough (1928), Can. Entomol. 60(11): 269-270), is inappropriate, as discussed by A. Warren (2005), Butts. Ore.: 82-83.
- f. ***Anthocharis sara sulfuris*** Pelham, new subspecies  
This taxon is adopted herein. It represents the populations of *A. sara* in southeastern British Columbia, eastern Washington, northeastern Oregon, northern Idaho and western Montana, as discussed by A. Warren (2005), Butts. Ore.: 82-83 (as "near *stella*").  
**Original Combination:** *Anthocharis sara sulfuris*



The name *Anthocharis sara* race *julia* tr. f. *sulfuris* Gunder, 1931, is adopted herein to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♀ "sulfuris" Gunder, 1931

Bull. South. Calif. Acad. Sci. 30(2): 45.

**Original Combination:** *Anthocharis sara* race *julia* tr. f. *sulfuris*

**Type Locality:** "Kellogg, Idaho" [Shoshone County]

**Types:** "Holotype" in AMNH.

g. *Anthocharis sara browningi* Skinner, 1906

Syn. Cat. N. Am. Rhop., Suppl. 1: 22; cited Browning (1901), Entomol. News 12(10): pl. 13, ♂ & ♀.

**Original Combination:** [*Anthocharis*] *Sara* var *browningi*

**Type Locality:** "Brightons [sic!], Utah, and City Creek Canon, near Salt Lake City" [Brighton and City Creek Canyon, Salt Lake County]

**Types:** Syntypes (#903) in ANSP; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. 14 ♂ D.

h. *Anthocharis sara julia* W. H. Edwards, 1872

Trans. Am. Entomol. Soc. 4(1/2): 61-62, no. 2; figured by W. H. Edwards (1878), Butts. N. Am. 2(7): pl. Anthocharis 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Anthocharis julia*

**Type Locality:** "pine woods of the mountains immediately surrounding the South Park, at Fairplay, Park Co., Colorado"; defined as "woods and on the banks of the Beaver Creek near Fairplay, Park Co., altitude 9500 feet" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 158.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 286, pl. 32, fig. 34 ♂ D, as "type"; figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 44, fig. 6 ♂ D & V.

i. *Anthocharis sara inghami* Gunder, 1932

Can. Entomol. 64(12): 276-277.

**Original Combination:** *Anthocharis sara* race *inghami*

**Type Locality:** "Tucson, Ariz." [Pima County, Arizona]

**Types:** Holotype in AMNH.

= ♀ "duncani" Gunder, 1932

Can. Entomol. 64(12): 277.

**Original Combination:** *Anthocharis sara* race *inghami* tr. f. *duncani*

**Type Locality:** "Globe, Ariz." [Gila County, Arizona]

**Types:** "Holotype" in AMNH.

j. *Anthocharis sara thoosa* (Scudder, 1878)

Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 257.

**Original Combination:** *Synchlœ thoosa*

**Type Locality:** "Mokiak Pass"; determined to be "Mokiah Pass, Mohave Co., Arizona: summit about 5200', T39N R12W, 36° 48' N/ 13° 33' W in the saddle between Wolf Hole Mountain and Seegmuller Mountain, up Mokiah Wash" by F. Brown (1967), J. Lepid. Soc. 21(2): 134.

**Types:** Holotype (#16016) in MCZ.

k. *Anthocharis sara pseudothoosa* Austin, 1998

Syst. W. N. Am. Butts. (44): 534-535, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Anthocharis sara pseudothoosa*

**Type Locality:** "Nevada: Douglas County; Sweetwater Mountains, Jackass Creek, 0.5-2 miles southwest of Desert Creek, 2195 m, T8N R24E (unsectioned) on USGS Desert Creek Peak, Nev.-Calif. 15' quadrangle"

**Types:** Holotype in MGCL.

Subgenus *Paramidea* Kuznetsov, 1929

Mus. zool. Acad. Sci. (Ser. 7) 1(2): 58 (nota). Type-species: *Anthocharis scolymus* Butler, 1866, J. Linn. Soc. Lond., Zool. 9: 52, no. 8, fig., by original designation. Bernardi (1961), Bull. Soc. Entomol. Fr. 66(3/4): 111-112, detailed the use of *Paramidea* over *Falcapica*.

= *Falcapica* Klots, 1930

Bull. Brooklyn Entomol. Soc. 25(2): 83. Type-species: *Papilio genutia* Fabricius, 1793, Entomol. Syst. 3(1): 193, no. 601, as a replacement name (= *Mancipium midea* Hübner, [1809], Samml. exot. Schmett. 1: pl. [142], figs. 1, 2, 3, 4; preoccupied). Proposed to replace *Midea* Herrich Schäffer, 1867, preoccupied (Code Articles 60.3, 67.8).

= ♀ *Midea* Herrich-Schäffer, 1867

Corresp.-Bl. zool.-min. Ver. Regensburg 21(9): 105; (11): 143. Type-species: *Papilio genutia* Fabricius, 1793, Entomol. Syst. 3(1): 193, no. 601 (= *Mancipium midea* Hübner, [1809], Samml. exot. Schmett. 1: pl. [142], figs. 1, 2, 3, 4; preoccupied). Preoccupied by *Midea* Bruzelius, [1855], Beskr. Hydrachn.: 35.

371. *Anthocharis midea* (Hübner, [1809])

a. *Anthocharis midea annickae* dos Passos & Klots, 1969

Entomol. Am. 45(1/2): 17, figs. 8 ♂ D, 9 ♂ V (holotype); 10 ♀ D, 11 ♀ V.

**Original Combination:** *Anthocharis (Falcapica) midea annickae*

**Type Locality:** "West Rock, New Haven, Connecticut" [New Haven County]

**Types:** Holotype in AMNH.

b. *Anthocharis midea midea* (Hübner, [1809])

Samml. exot. Schmett. 1: pl. [142], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Mancipium vorax* Midea

**Type Locality:** Not stated; suggested to be "Georgien" by Hemming (1937), Hübner 2: 115 (manuscript #31); defined as "vic. Savannah, Chatham County, Georgia" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 76; neotype from "Wilmington I., near Savannah, Georgia."

**Types:** Type(s) lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5-6, figs. 4 ♂ D, 5 ♂ V; this is also the neotype of *genutia* Fabricius, 1793.

= *genutia* (Fabricius, 1793)

Entomol. Syst. 3(1): 193, no. 601; cited Jones' Icones pl. 26, fig. 2.

**Original combination:** *P[apilio]*. *D[anae]*. *Genutia*

**Type Locality:** "India. Dom Drury"; suggested to be "the coastal plain region of Georgia" by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5; neotype from "Wilmington I., near Savannah, Georgia."

**Types:** Type(s) apparently lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 5-6, figs. 4 ♂ D, 5 ♂ V.

Preoccupied by *Papilio genutia* Cramer, 1779, Utitl. Kapellen 3(18): 23-24, pl. 206, figs. C, D; (24): 175 (index).

= *lherminieri* (Godart, 1819)

Ency. méth. 9(Ins.) (1): (118), 197 [sic]; [167]-168], no. 164.

**Original Combination:** *Pieris lherminieri*

**Type Locality:** "Charles-Town"; neotype from "McClellanville (Charleston Co.), South Carolina."

**Types:** Type(s) apparently lost; neotype in AMNH, designated by dos Passos and Klots (1969), Entomol. Am. 45(1/2): 6, figs. 6 ♂ D, 7 ♂ V.

= *flavida* Skinner, 1917

Entomol. News 28(10): 438.

**Original Combination:** *Anthocharis genutia* var. *flavida*

**Type Locality:** "Savannah, Georgia" [Chatham County]

**Types:** Lectotype (#7029) in ANSP, designated (as holotype) by Gillham and Ehrlich (1954), Trans. Am. Entomol. Soc. 80(3/4): 93, no. 6; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. 15 ♂ D, and dos Passos and Klots (1969), Entomol. Am. 45(1/2): figs. 2 ♂ D, 3 ♂ V.

c. *Anthocharis midea texana* Gatrell, 1998

Tax. Rep. Int. Lepid. Surv. 1(1): 3, figs. 1 ♂ D (holotype), 5 ♀ D.

**Original Combination:** *Anthocharis midea texana*

**Type Locality:** "6 mi. w. of Buffalo, Freestone Co., Texas"

**Types:** Holotype in MGCL.

372. *Anthocharis lanceolata* Lucas, 1852

a. *Anthocharis lanceolata lanceolata* Lucas, 1852

Revue Mag. Zool. (2)4(7): 338-339.

**Original Combination:** *Anthocharis Lanceolata*

**Type Locality:** "Californie"; defined as "Highway 70 at Soda Creek, E. Branch of North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 78.

**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 79, figs. 10 ♀ D, 11 ♀ V.

= *lanceolata* Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 284-285, no. 10.

**Original Combination:** *Anthocharis lanceolata*

**Type Locality:** "les montagnes de la Juba"

**Types:** Syntypes in USNM.

Preoccupied by *Anthocharis lanceolata* Lucas, 1852, Revue Mag. Zool. (2)4(7): 338-339.

= *edwardsii* Behr, 1869

Trans. Am. Entomol. Soc. 2(3): 304.

**Original Combination:** *Anthocaris* [sic] *Edwardsii*

**Type Locality:** "Downieville" [Sierra County, California]

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire.

b. *Anthocharis lanceolata australis* (F. Grinnell, 1908)

Can. Entomol. 40(2): 72.

**Original Combination:** *Synchlœ australis*

**Type Locality:** "Arroyo Seco Cañon and Millard Cañon, Pacific slope of the St. [sic] Gabriel Mountains, Los Angeles County, California. Elevation 2,500 feet" [San Gabriel Mountains]

**Types:** Syntype in AMNH.

c. *Anthocharis lanceolata desertolimbus* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (11): 135, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Anthocharis lanceolata desertolimbus*

**Type Locality:** "California: San Diego County; one mile west of Scissors Crossing; T12S., R5E"

**Types:** Holotype in LACM.

#### Genus *Euchloe* Hübner, [1819]

Verz. bekannt. Schmett. (6): 94. Type-species: *Euchloe ausonia* var. *esperi* W. F. Kirby, 1871, Syn. Cat. diurn. Lepid.: 506 (= *Euchloe crameri* Butler (1869), Entomol. Mon. Mag. 5: 271, no. 2; subspecies), by designation of I.C.Z.N *Opinion* 177. *Opinion* 270 placed *Euchloe* on the *Official List of Generic Names in Zoology* as name no. 687.

= ‡*Phyllocharis* Schatz, [1885]

In: Staudinger and Schatz, Exot. Schmett. (2) (1): pl. 8. Type-species: *Papilio tagis* Hübner, [1804], Samml. europ. Schmett. 1: pl. 110, figs. 565, 566, by monotypy. Preoccupied by *Phyllocharis* Dalman, 1824, Ephem. entomol.: 21.

= *Elphinstonia* Klots, 1930

Bull. Brooklyn Entomol. Soc. 25(2): 87-88. Type-species: *Anthocharis charltonia* Donzel, 1842, Ann. Soc. Entomol. Fr. [1]11(2): 197-198, pl. 8, fig. 1, by original designation.

### 373. *Euchloe ausonides* (Lucas, 1852)

The relationship between this species and *E. ausonia* Hübner, [1804], Samml. europ. Schmett. 1: pl. Pap. 113, figs. 582 ♀ D, 583 ♀ V; 64, no. 12 (name given), was explained by Geiger and Scholl (1985), Experientia 41: 24-29, and Back (1991), Atalanta (Münnerstadt) 21(3/4): 187-206.

#### a. *Euchloe ausonides ausonides* (Lucas, 1852)

Revue Mag. Zool. (2)4(7): 340-341.

**Original Combination:** *Anthocharis Ausonides*

**Type Locality:** "Californie"; defined as "San Francisco, San Francisco County, California" by Opler (1967), J. Res. Lepid. 5(3): 191.

**Types:** Lectotype in MNHP, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (3): 79, figs. 16 ♂ D, 17 ♂ V.

= ‡*ausonides* Boisduval, 1852

Annls. Soc. Entomol. Fr. (2)10(2): 286, under no. 11.

**Original Combination:** *Anthocharis Ausonides*

**Type Locality:** "dans une grande partie de la Californie"

**Types:** Holotype in USNM; figured by Verity [1907], Rhop. palae.: pl. 37, fig. 20 ♂ D.

Preoccupied by *Anthocharis ausonides* Lucas, 1852, Revue Mag. Zool. (2)4(7): 340-341.

= ‡*flavidalis* J. A. Comstock, 1924

Bull. South. Calif. Acad. Sci. 23(2): 51; 24(1): pl. 10, fig. 10 ♀ D ("holotype").

**Original Combination:** *Euchloe ausonides* var. *flavidalis*

**Type Locality:** "Palo Alto, California" [Santa Clara County]

**Types:** "Holotype" in LACM.

The text clearly indicates that this taxon was described as an individual variant.

= ‡*semiflava* J. A. Comstock, 1924

Bull. South. Calif. Acad. Sci. 23(2): 51; 24(1): pl. 10, fig. 11 ♀ D ("holotype").

**Original Combination:** *Euchloe ausonides* var. *semiflava*

**Type Locality:** "San Jose Mission, California" [Fremont County]

**Types:** "Holotype" in LACM.

The text clearly indicates that this taxon was described as an individual variant.

= ‡*boharti* Doudoroff, 1930

Pan-Pac. Entomol. 6(3): 143, fig. ♂ V ("holotype").

**Original Combination:** *Euchloe ausonides* [ab.] *boharti*

**Type Locality:** "Berkeley, California" [Alameda County]

**Types:** "Holotype" in Bohart Collection (UCDC).

#### b. *Euchloe ausonides insulanus* C. Guppy & J. Shepard, 2001

Butts. B. C.: 160, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Euchloe ausonides insulanus*

**Type Locality:** "BC, W[ellington]" [Wellington, Vancouver Island, British Columbia]

**Types:** Holotype in CNC.

#### c. *Euchloe ausonides transmontana* Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 506, figs. 23 ♂ D, 24 ♂ V (holotype); 25 ♀ D, 26 ♀ V.

**Original Combination:** *Euchloe ausonides transmontana*

**Type Locality:** "Nevada: Lander County; Toiyabe Mountains, Kingston Canyon, 2050 m, T16N R43E S27-28 on the USGS Millet Ranch, Nev. 15' quadrangle"

**Types:** Holotype in LACM.

= ‡*hemiflava* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 19.

**Original Combination:** *Euchloe ausonides* race *coloradensis* tr. f. *hemiflava*

**Type Locality:** "Payson, Utah" [Utah County]

**Types:** "Holotype" in USNM.

#### d. *Euchloe ausonides coloradensis* (Hy. Edwards, 1881)

Papilio 1(4): 50-51.

**Original Combination:** *Anthocharis coloradensis* n. sp.?

**Type Locality:** "Colorado"; defined as "Turkey Creek Junction, Jefferson County, Colorado" by Opler (1967), J. Res. Lepid. 5(3): 192.

**Types:** Lectotype in AMNH, designated by K. Johnson (1976), J. Lepid. Soc. 30(4): 253, figs. 2b, 2e ♂ genitalia.

= ‡*montana* Verity, [1911]

Rhop. palae.: 339; pl. 68, figs. 13 ♂ D, 14 ♀ D, 15 ♂ V; ind. syst.: xxxi.

**Original Combination:** [*Euchloe belia* var. *belioides*] race *montana*

**Type Locality:** "hautes montagnes...à 3000 m. Dans le Colorado (Halle Valley)" implied from the text; "Hall Valley, 3000 m., Colorado" from the legend to plate 68. [Park County]

**Types:** Syntypes in the BMNH.



- e. **Euchloe ausonides palaeoreios** K. Johnson, 1976  
J. Lepid. Soc. 30(4): 253-256, fig. 1 (6 images including D&V ♂ holotype), fig. 2 a ♂ genitalia (holotype), 2d valve and penis.  
**Original Combination:** *Euchloe ausonides palaeoreios*  
**Type Locality:** "Spearfish Canyon, near Spearfish, Lawrence Co., South Dakota"  
**Types:** Holotype in AMNH.
- f. **Euchloe ausonides mayi** F. Chermock & R. Chermock, 1940  
Can. Entomol. 72(4): 81.  
**Original Combination:** *Euchloe ausonides mayi* new race  
**Type Locality:** "Riding Mountains, Manitoba"  
**Types:** Holotype in CNC.
- g. **Euchloe ausonides ogilvia** Back, 1991  
Atalanta (Münnerstadt), 21(3/4): 195-197, pl. 1, figs. 1, 3, 5, 8, 10 pupa, pl. 2, fig. 7 ova, pl. 3, figs. 8, 9, 10 ova, cpl. 2, fig. 1 ♂ D&V (holotype), fig. 2 ♀ D&V (possibly not the same species), cpl. 3, figs. 1, 2, 3 larva.  
**Original Combination:** *Euchloe ogilvia*  
**Type Locality:** "CDN [sic!], Yukon-Ter. Ogilvie Mts., Dempster Hwy, Mi. 45, 500-1000m"  
**Types:** Holotype in MGCL.  
It is possible that the holotype is a specimen of *E. naina*; future research may place this name with that species.
- \*374. **Euchloe naina** Kozhanchikov, 1923  
Ezheg. gosud. Muz. N. M. Mart'yanova 1(1): 2-3.  
**Original Combination:** *E[uchloe]. belia naina*  
**Type Locality:** "Sajan-Gebirge am Bujba-See auf der Hoch v. n. 1400 m" [Sayan Mountains, Krasnoyarski Kray, Russia]  
**Types:** Syntypes in ZIN and ZMKU; figured by Back (1991), Atalanta (Münnerstadt) 21(3/4): cpl. 2, figs. 5 ♂ D&V, 6 ♀ D&V, and Chikolovets *et al.* (2002), Butts. Transbaikal Siberia: pl. 29, figs. 2 ♂ D, 6 ♀ D.  
Tuzov (1993), Syn. List Butts. ex-USSR: 18, elevated this taxon to the species-level.  
= "koshantschikoffi" O. Bang-Haas, 1927  
Horae Macrolep. 1(3): 40, pl. 5, fig. 15 ♀ D (holotype).  
**Original Combination:** [*Euchloe belia naina*] ♀ ab. *koshantschikoffi*  
**Type Locality:** "Sajan mont. or.: Kultuk am Baikalsee" implied from the text, "Sajan mont. Minussinsk" from plate. [Sayan Mountains, Krasnoyarski Kray, Russia]  
**Types:** Holotype in the ZMHB.
- a. **Euchloe naina jakutia** Back, 1991  
Atalanta (Münnerstadt) 21(3/4): 193-195, cpl. 2, figs. 3 ♂ D&V (holotype), 4 ♀ D&V.  
**Original Combination:** *Euchloe simplonia jakutia*  
**Type Locality:** "USSR, Yakutia, Suntar Mts." [E. Sakha Autonomous Republic, Russia]  
**Types:** Holotype in MGCL.  
If it is accepted that the holotype of *E. a. ogilvia* actually represents *E. ausonides*, the populations of *E. naina* in the Yukon may be *jakutia* or unnamed.
375. **Euchloe olympia** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 266-267, no. 1; figured by W. H. Edwards (1874), Butts. N. Am. 2(1): pl. Anthocharis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Anthocharis [sic!] Olympia*  
**Type Locality:** "Coalburgh, W. Va...Dallas, Texas"; lectotype from "Kan." [Kanawha County, West Virginia]  
**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 33, fig. 1 ♂ D&V.  
= *rosa* (W. H. Edwards, 1882)  
Papilio 2(3): 45-46, no. 1; figured by W. H. Edwards (1889), Butts. N. Am. 3(7): pl. Anthocharis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Anthocharis Rosa*  
**Type Locality:** "western Texas"; defined as "Wichita County, Texas" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 34-35.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 285, pl. 32, fig. 39 ♂ D, as "type"; also figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): fig. 2 ♂ D&V.
376. **Euchloe creusa** (E. Doubleday, [1847])  
a. **Euchloe creusa creusa** (E. Doubleday, [1847])  
In: Gen. diurn. Lepid. (1)(5): pl. 7, fig. 1; (6): 56.  
**Original Combination:** *Anthocharis Crëusa*  
**Type Locality:** "Rocky Mountains, North America"; defined as "vicinity of Banff, near 7,000' elevation, Alberta, Canada" by Opler (1967), J. Res. Lepid. 5(3): 192-193; redefined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.  
**Types:** Lectotype in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20: 42, figs. 1 ♂ D, 2 ♂ V; the same specimen figured by Verity [1911], Rhop. palae.: pl. 68, figs. 11 ♂ D.  
I.C.Z.N. Opinion 270 placed this name on the *Official List of Specific Names in Zoology* as name no. 89.  
= *elsa* Beutenmüller, 1898  
Bull. Am. Mus. Nat. Hist. 10(13): 242, pl. 14, fig. 3 ♂ D&V.  
**Original Combination:** *Euchloe creusa* var. *elsa*  
**Type Locality:** "Laggan, British Columbia [sic!]" [Lake Louise, Alberta]  
**Types:** One syntype in AMNH.
377. **Euchloe hyantis** (W. H. Edwards, 1871)  
a. **Euchloe hyantis hyantis** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 205-206, no. 1.

**Original Combination:** *Anthocaris* [sic] *Hyantis*

**Type Locality:** "Mendocino, Cal.," defined as "vicinity of Ukiah, Mendocino Co., Calif." by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 35.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 285, pl. 67, fig. 27 ♂ D, as "type"; also figured by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 36, fig. 3 ♀ D&V.

= ♀ "orientalides" Verity, [1908]

Rhop. palae.: 182 [30 Nov 1908], pl. 50, fig. 16 ♂ D ("holotype"); ind. syst.: xxxi [31 Oct 1911].

**Original Combination:** [*Euchloe belia* var. *creusa* gen. aest. var. *ausonides*] forme *orientalides*

**Type Locality:** "Californie, Placer" implied from the legend to plate 50. [Placer County, California]

**Types:** "Holotype" in MZUF.

= ♀ "pseudoausonides" Verity, [1911]

Rhop. palae.: 339 [31 Oct 1911]; pl. 37, figs. 16 ♂ D, 19 ♂ V [30 Apr 1909]; ind. syst.: xxxi [31 Oct 1911].

**Original Combination:** [*Euchloe belia* var. *belioides*] forme *pseudoausonides*

**Type Locality:** "Californie" implied from the legend to plate 37.

**Types:** "Holotype" in BMNH.

**b. *Euchloe hyantis andrewsi* Martin, 1958**

Bull. South. Calif. Acad. Sci. 35(2): 94-95.

**Original Combination:** *Euchloe ausonides* r. *andrewsi*

**Type Locality:** "CrestLine Highway, near Lake Arrowhead, San Bernardino Co., Calif."

**Types:** Holotype in LACM.

**378. *Euchloe lotta* Beutenmüller, 1898**

Bull. Am. Mus. Nat. Hist. 10(13): 243, pl. 14, fig. 4 ♂ D&V.

**Original Combination:** *Euchloe lotta*

**Type Locality:** "Colorado, Arizona, Utah, Southern California"

**Types:** Syntypes in AMNH.

This was treated as species-level taxon by Layberry *et al.* (1998), Butts. Can.: 100-101, Opler (1999), Field Guide W. Butts.: 157-158, and A. Warren (2005), Butts. Ore.: 81.

= *belioides* Verity, [1911]

Rhop. palae.: 339 [31 Oct 1911]; pl. 37, figs. 17 ♀ D, 18 ♀ V [30 Apr 1909]; ind. syst.: xxxi [31 Oct 1911].

**Original Combination:** [*Euchloe belia*] var. *belioides*

**Type Locality:** "Arizona" and "S. Ignatius, Montana" implied from the legend to plate 37. [St. Ignatius, Lake County, Montana]

**Types:** Location of syntypes not known.

= ♀ "pumilio" Strand, 1915

Arch. Naturgesch. (A)80(11): 153-154.

**Original Combination:** *Euchloe creusa* cum ab. *pumilio* n. ab.

**Type Locality:** "Klamath Co. in Oregon...Modoc Co. in Cal....Lassen Co."

**Types:** "Syntype(s)" probably in DEL.

This taxon was placed under *E. h. hyantis* by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 74, but all areas included in the type locality are inhabited by *E. lotta* only, as detailed by A. Warren (2005), Butts. Ore.: 81.

**379. *Euchloe guaymasensis* Opler, 1987**

J. Lepid. Soc. 40(3): 188-189, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♂ genitalia.

**Original combination:** *Euchloe guaymasensis*

**Type Locality:** "Mexico, Estado de Sonora, Las Avispas microwave relay, 2000' (655m), 40 mi (64 km) N Guaymas"

**Types:** Holotype in USNM.

R. Holland (1995), J. Lepid. Soc. 49(2): 121-125, fig. 2a ♂ D&V, 2b ♀ D&V, 124, fig. 4, map; 134, figured the female and discussed the geographic distribution of this taxon.

Tribe **Pierini** Swainson, 1820

Subtribe **Appiadina** Kuznetsov, 1929

Faun. USSR, Ins. Lepid. 1(2): 45 (as "Appiadici"). Type-genus: *Appias* Hübner, [1819], Verz. bekannt. Schmett. (6): 91.

Genus **Glutophrissa** Butler, 1887

Entomol. Mon. Mag. 23(11): 249. Type-species: *Appias poeyi* Butler, 1872, Proc. Zool. Soc. Lond. 1872(1): 49 (= *Papilio drusilla* Cramer, 1779, Uitl. Kapellen 3(18): 21, pl. 207, fig. C; (23): 148 (index); subspecies), by original designation.

= ♀ *Andropodum* Scudder (1875)

Proc. Am. Acad. Arts Sci., Boston 10(2): 112, no. 80. Type-species: *Mylothris margarita* Hübner, [1825], Samml. exot. Schmett. 2: pl. [120], figs. 1, 2, 3, 4 (= *Papilio drusilla* Cramer, 1779, Uitl. Kapellen 3(18): 21, pl. 207, fig. C; (23): 148 (index)), by original designation. Preoccupied by *Andropodum* Hübner, 1822, Syst.-alph. Verz.: 2-5, 7-9.

**\*380. *Glutophrissa drusilla* (Cramer, 1779)**

Uitl. Kapellen 2(10): 21, 148, pl. 110, fig. C; (16): 148 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Drusilla*

**Type Locality:** "Batavia" in error; suggested to be "Surinam" by W. Comstock (1943), Am. Mus. Novit. (1238): 1; "neotype" from

“Óbidos, Pará.” [Brazil]

**Types:** Type(s) probably lost; d’Almeida (1945), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 6(21): 236, designated “neotypes”; Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): 328, fig. 7 ♂ D&V, designated one of these as the neotype (#920) in UFPC. Neither of these designations are in accordance with Code Articles 75.2 and 75.3.

= *ilaire* (Godart, 1819)

In: Ency. méth. 9(Ins.) (1): 111, 142, no. 83.

**Original Combination:** *Pieris Ilaire*

**Type Locality:** “Brésil”

**Types:** Lectotype in MNHP, designated by Abadjiev (2005), Atalanta (Münnerstadt) 36(1/2): 132.

= *mysia* (Godart, 1819)

Ency. méth. 9(Ins.) (1): 111, 143, no. 87.

**Original Combination:** *Pieris Mysia*

**Type Locality:** “Brésil”

**Types:** Lectotype in MNHP, designated by Abadjiev (2005), Atalanta (Münnerstadt) 36(1/2): 133.

As first reviser, Poey (1832), Cent. Lépid. Cuba (2): [43], gave priority to *ilaire* over *mysia*.

= *albunea* (Dalman, 1823)

Analecta Entomol.: 39, no. 4.

**Original Combination:** *Papilio Albunea*

**Type Locality:** “Brasilia”

**Types:** Syntype in NHRS.

= *molpadia* (Hübner, 1823)

Zutr. Samml. exot. Schmett. 2: pl. [45], figs. 259 ♂ D, 260 ♂ V [1821]; 15, no. 130 (1823, name given).

**Original Combination:** *Mylothris Molpadia*

**Type Locality:** “Brazil”

**Types:** Type(s) probably lost.

= *margarita* (Hübner, [1825])

Samml. exot. Schmett. 2: pl. [120], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Mylothris Margarita*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

Hübner [1819], Verz. bekannt. Schmett. (6): 90, listed *Mylothris margarita* without a description or indication; a *nomen nudum*.

= *janeira* (Bönnighausen, 1896)

Verh. Ver. naturw. Unterh. Hamb. 9: 30.

**Original Combination:** [*Tachyris Ilaire*] *Janeira*

**Type Locality:** “benenne nach der örtlichkeit” “Jardin Botanico de Rio de Janeiro” [Brazil]

**Types:** Location of type(s) not known.

= *augustiniana* Fernández, 1928

Asoc. españ. Progreso Ciencias. Congr. Cádiz. Sección IV, 1928: 122-123.

**Original Combination:** *Appias drusilla* var. *augustiniana*

**Type Locality:** “Iquitos” [Peru]

**Types:** Lectotype in MNMS, designated by Lamas (1999), Shilap Revta. Lepid. 27(105): 134, fig. 11 ♂ D&V.

= *minima* (Breyer, 1939)

Proc. Int. Congr. Entomol. 7(Berlin) 1: 36-37.

**Original Combination:** *A[ppias]. drusilla* f[orm]. *minima*

**Type Locality:** “Tabascal (Salta)” [Argentina]

**Types:** Syntype in MLP.

= ‡“nana” (d’Almeida, 1913)

Trois Lepid. Nouv. Brésil: [4]; figured by d’Almeida (1939), Bol. Biol. (São Paulo) (n.s.) 4(1): pl. 4, fig. F ♀ D (“holotype”).

**Original Combination:** [*Appias drusilla*] f. *nana*

**Type Locality:** “Rio de Janeiro”; holotype from “Engenho de Dentro, Rio de Janeiro.” [Brazil]

**Types:** “Holotype” (#937) in UFPC; figured by Mielke and Casagrande (1985), Revta. bras. Entomol. 29(2): fig. 35 ♀ D&V.

= ‡“alba” Ribeiro, 1931

Bol. Mus. Nac. (Zool.) (Rio de Janeiro) 7(1): 35.

**Original Combination:** *Daptonoura laria alba* form. n

**Type Locality:** “Jamary” [Rio Jamary, Rondonia, Brazil]

**Types:** Location of “type(s)” not known.

‡“amarilla” (Scott, 1981)

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Appias drusilla* female form *amarilla*

Proposed as a “form” with no nomenclatural standing; a *nomen nudum*.

a. *Glutophrissa drusilla tenuis* (Lamas, 1981)

Revta. Cienc. (Lima) 73(1): 49, figs. 10 ♂ D&V (holotype), 11 ♀ D&V.

**Original Combination:** *Appias drusilla tenuis*

**Type Locality:** “Tumbes, Matapo, La Totora, 100m” [Peru]

**Types:** Holotype in MUSM.

b. *Glutophrissa drusilla neuvoegenii* (Skinner, 1894)

Entomol. News 5(4): 110, pl. 4.



**Original Combination:** *Tachyris ilaire* var. *neumoegenii*

**Type Locality:** "Indian River, Fla." [Brevard County, Florida]

**Types:** At least one syntype in USNM, as noted by Lamas (1993), Shilap Revta. Lepid. 21 (83): 146, no. 54.

= ‡"hollandi" Röber, 1908

In: Seitz, Grossschmett. Erde 5 (21): 68; cited *Melete ilaire* (sensu W. Holland (1898), Butt. Book: pl. 35, fig. 5 ♀ D).

**Original Combination:** [*Appias drusilla*] ab. *hollandi*

**Type Locality:** Not stated; "holotype" from "Indian River, Brevard County, Florida."

**Types:** "Holotype" in CMNH.

#### Subtribe *Aporiina* Chapman, 1895

Entomol. Rec. 6(6): 127. Type-genus: *Aporia* Hübner, [1819], Verz. bekannt. Schmett. (6): 90. This name was poorly diagnosed here; it was described in greater detail in a key by Chapman (1895), Entomol. Rec. 6(7): 151.

#### Genus *Melete* Swainson, 1831

Zool. Illustr. (2)2(17): pl. 79, unnumbered text. Type-species: *Pieris limnoria* Godart, 1819, Enc. méth. 9(Ins.) (1): (111), 144, no. 93 (= *Papilio flippantha* Fabricius, 1793, Ent. syst. 3 (1): 202, no. 631; synonym: a subspecies of *Papilio lycimnia* Cramer, 1777, Uidl. Kapellen 2 (9): 13, pl. 105, figs. E, F), by original designation.

= *Daptonoura* Butler, [1870]

Cat. Diurn. Lepid. Fabricius Brit. Mus.: 209, Type-species: *Papilio lycimnia* Cramer, 1777, Uidl. Kapellen 2(9): 13, pl. 105, figs. E, F, by original designation.

#### \*381. *Melete lycimnia* (Cramer, 1777)

Uidl. Kapellen 2(9): 13-14, pl. 105, figs. E ♂ D, F ♂ V; (16): 149 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Lycimnia*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Syntypes (#665088B91) in BMNH.

= ‡*agrippina* (Hübner, [1819])

Verz. bekannt. Schmett. (6): 91, no. 949.

**Original Combination:** *M[ylotris]. Agrippina*

Proposed to replace *Papilio lycimnia* Cramer, 1777, erroneously thought preoccupied; a junior objective synonym of *Papilio lycimnia*.

#### a. *Melete lycimnia isandra* (Boisduval, 1836)

Spec. gén. Lépid. 1: 490-491, no. 79.

**Original Combination:** *Pieris Isandra*

**Type Locality:** "Mexique"

**Types:** Holotype (#720272) in BMNH.

Recorded from Texas by Dauphin *et al.* (2005), News Lepid. Soc. 47(2): 43, 46, 19 figs.

= *kleta* Fruhstorfer, 1907

Stettiner Entomol. Ztg. 68(2): 273.

**Original Combination:** [*Melete isandra* subsp.] *kleta*

**Type Locality:** "Honduras"; lectotype from "San Pedro Sula."

**Types:** Lectotype (#720320) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 58.

#### Genus *Neophasia* Behr, 1869

Trans. Am. Entomol. Soc. 2(3): 303. Type-species: *Pieris menapia* C. Felder & R. Felder, 1859, Wien. entomol. Monatschr. 3(9): 271, no. 18, by designation of W. F. Kirby [1870], Zool. Rec. 6(1869): 357.

#### 382. *Neophasia menapia* (C. Felder & R. Felder, 1859)

##### a. *Neophasia menapia tehachapina* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (11): 127-128, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Neophasia menapia tehachapina*

**Type Locality:** "California: Kern Co.; Tehachapi Mts., canyon on the north slope of Double Mountain"

**Types:** Holotype in LACM.

##### b. *Neophasia menapia menapia* (C. Felder & R. Felder, 1859)

Wien. Entomol. Monatschr. 3(9): 271, no. 18; figured by C. Felder and R. Felder (1865), Reise Novara Zool. (2): pl. 25, fig. 7 ♂ D.

**Original Combination:** *Pieris Menapia*

**Type Locality:** "Mormenenlande am Salzsee"; suggested to be "eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada" by F. Brown (1967), J. Lepid. Soc. 21(4): 272; defined as "pine forest just W of Pyramid Lake Nevada" by Scott (1981), Papilio (n.s.) 1: 2; corrected to "vicinity of Davis Creek Park, Washoe Valley, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88, figs. 4 ♂ D, 5 ♂ V.

= *nimonia* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 38, no. 5.

**Original Combination:** *Pieris Ninonia*

**Type Locality:** “dans la partie le plus orientale de la Californie”; defined as “pine forest just W of Pyramid Lake Nevada” by Scott (1981), *Papilio* (n.s.) 1: 2; corrected to “vicinity of Davis Creek Park, Washoe Valley, Washoe County, Nevada” by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (2): 24.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (2): 24, figs. 162 ♂ D, 163 ♂ V.  
= ♀ “nigracosta” J. A. Comstock, 1918

*Lepidopterist* 2(2): 13, pl. 4, fig. 1 ♂ D, 2 ♂ (“holotype”); figured by Comstock (1927), *Butts. Calif.*: pl. 7, fig. 4 ♂ D.

**Original Combination:** *Neophasia Menapia* F. *Nigracosta*

**Type Locality:** “high Sierras of Tulare County, California, altitude 9,000 to 10,000 ft. (Near Olancho Peak)”; holotype from “Monache Meadows, Tulare Co., Cal.”

**Types:** “Holotype” in LACM.

c. ***Neophasia menapia melanica*** Scott, 1981

*Papilio* (n.s.) 1: 2.

**Original Combination:** *Neophasia menapia melanica*

**Type Locality:** “6 mi. W. Willits, Mendocino Co., Calif.” [California]

**Types:** Holotype in EMEC.

d. ***Neophasia menapia tau*** (Scudder, 1861)

*Proc. Boston Soc. Nat. Hist.* 8: 183-184.

**Original Combination:** *Pieris Tau*

**Type Locality:** “Gulf of Georgia”; interpreted to be “near Port Townsend, Wash. Terr.” by H. Hagen (1883), *Proc. Boston Soc. Nat. Hist.* 22: 164. [Jefferson County, Washington]

**Types:** Syntypes (#16601) in MCZ.

A. Warren (2005), *Butts. Ore.*: 68-69, discussed the application of this name to Pacific Northwestern populations of *N. menapia*.

= ♀ “suffusa” (Stretch, 1882)

*Papilio* 2(7): 109-110, pl. 2, figs. 3 ♀ D, 4 ♀ V.

**Original Combination:** [*Pieris Menapia*] [female form] *suffusa*

**Type Locality:** “Country round Spokane Falls, Washington Territory”

**Types:** “Holotype” in MCZ.

e. ***Neophasia menapia magnamenapia*** Austin, 1998

*Syst. W. N. Am. Butts.* (44): 533, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Neophasia menapia magnamenapia*

**Type Locality:** “Nevada: Lincoln County; Wilson Creek Range, Wilson Peak Road (access from road to Atlanta), 2134 m, T5N R68E S8-9 on USGS Trail Canyon, Nev. 7.5' quadrangle”

**Types:** Holotype in MGCL.

383. ***Neophasia terlooii*** Behr, 1869

*Trans. Am. Entomol. Soc.* 2(3): 304.

**Original Combination:** *N[*leophasia*]. Terlooii*

**Type Locality:** “pine forest region of the Sierra Madre in a cold, inhospitable region” [E of Mazatlán, Sinaloa, Mexico]

**Types:** Holotype destroyed in the 1906 San Francisco earthquake and fire.

Even though this name is a patronym for Baron Popelaire de Terloot, there is no evidence for this in the original description. Behr (1889), *Proc. Calif. Acad. Sci.* (2)2: 92, emended the name to *terlootii*, but that was an unjustified emendation; the name must stand as originally spelled (Code Article 32.2).

= *epyaxa* Strecker, 1900

*Descr. Neophasia epyaxa*: 1.

**Original Combination:** *Neophasia Epyaxa*

**Type Locality:** “Cochise Co., Arizona”

**Types:** Holotype in FMNH.

This taxon was redescribed by Strecker (1900), *Lepid. Rhop. Het.* (suppl. 3): 38.

= *princetonia* (W. Barnes, 1900)

*In: Skinner, Entomol. News* 11(7): 533.

**Original Combination:** *Archonias princetonia*

**Type Locality:** Not stated; Poling (1900), *Can. Entomol.* 32(12): 358, mentioned “Cochise County, Arizona”; syntypes from “Huachuca Mts.”

**Types:** Syntypes in USNM.

Poling (1900), *Can. Entomol.* 32(12): 358, redescribed this taxon (as *Neophasia Terlootii*, var. *Princetonia*).

Genus ***Catasticta*** Butler, 1870

*Cist. Entomol.* 1(3): 34, no. 12; 43, no. 12. Type-species: *Euterpe nimbice* Boisduval, 1836, *Spec. gén. Lépid.* 1: 409-410, no. 6, by original designation.

= *Archonoia* Reissinger, 1972

*Entomol. Z.* 82(10): 111. Type-species: *Catasticta strigosa* Butler, 1896, *Ann. Mag. Nat. Hist.* (6)17(97): 54, by original designation.

= *Leodontoia* Eitschberger & Racheli, 1998

*Neue Entomol. Nachr.* 41: 11-2. Type-species: *Euterpe pieris* Hopffer, 1874, *Stettiner Entomol. Ztg.* 35(10-12): 332, by original designation.

‡*Pierinoia* Reissinger, 1972

Entomol. Z. 82(11): 114. Type-species: *Euterpe pieris* Hopffer, 1874, Stettiner Entomol. Ztg. 35(10-12): 332, by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).

‡*Leodontoia* Reissinger, 1972

Entomol. Z. 82(11): 117. Type-species: *Catasticta cerberus* Godman & Salvin, 1889, Biol. centr.-amer., Lepid. Rhop. 2(78): 120; 3(80): pl. 64, figs. 19, 20, by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).

‡*Hesperochoia* Reissinger, 1972

Entomol. Z. 82(11): 120. Type-species: *Catasticta clara* Röber, 1909, in: Seitz, Grossschmett. Erde 5(16): 74; (18): pl. 22g, fig. [6] (= *Catasticta poujadei* Dognin, 1887, Naturaliste (2)1(16): 188; subspecies), by original designation. This name was published without a description and is unavailable (Code Article 13.1.1).

384. ***Catasticta nimbice*** (Boisduval, 1836)

a. ***Catasticta nimbice nimbice*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 409-410, no. 6 (♂ only).

**Original Combination:** *Euterpe Nimbice*

**Type Locality:** "Mexique"; stated to be "probably the vicinity of Orizaba, Veracruz" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 68.

**Types:** Syntypes (#662269, 662270) in BMNH.

Subtribe **Pierina** Swainson, 1820

Genus **Pieriballia** Klots, 1933

Entomol. Am. (n.s.) 12(4): 221. Type-species: *Pieris mandela* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 80, no. 30 (= *Pieris viardi* Boisduval, 1836, Spec. gén. Lépid. 1: 439-440, no. 3; subspecies), by original designation.

= ‡*Neogeia* Verity, 1947

Farfalle diurn. Ital. 3: 191. Type-species: *Pieris mandela* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(3): 80, no. 30 (= *Pieris viardi* Boisduval, 1836, Spec. gén. Lépid. 1: 439-440, no. 3; subspecies), by original designation. A junior objective synonym of *Pieriballia* Klots, 1933.

385. ***Pieriballia viardi*** (Boisduval, 1836)

a. ***Pieriballia viardi viardi*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 439-440, no. 3.

**Original Combination:** *Pieris Viardi*

**Type Locality:** "Mexique"

**Types:** Holotype (#720034) in BMNH, figured by Abadjiev (2006), Zootaxa 1143: pl. 59, figs. 467 ♀ D, 468 ♀ V.

Recorded from Texas by Bordelon and Knudson (2006), News Lepid. Soc. 48(1): 3.

= *habra* (E. Doubleday, 1846)

Ann. Mag. Nat. Hist. [1]17(109): 22-23.

**Original Combination:** *Pi[eris]. Habra*

**Type Locality:** "Honduras" "at some distance from Balize [*sic!*]"

**Types:** Lectotype (#720033) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 49, pl. 59, figs. 469 ♂ D, 470 ♂ V.

= *laogore* (Godman & Salvin, 1889)

Biol. centr.-amer., Lepid. Rhop. 2(58): 134, no. 7.

**Original Combination:** *Pieris laogore*

**Type Locality:** "Mexico, Dos Arroyos in Guerrero...Oaxaca"

**Types:** Lectotype (#720032) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 59, pl. 59, figs. 471 ♀ D, 472 ♀ V.

= ‡"*intermedia*" (Vázquez, 1954)

An. Instit. Biol., Univ. Nac. Auton. Méx. (Zool.) 24(2): 444.

**Original Combination:** *Itaballia (Pieriballia) viardi viardi* f[orma]. fem[inina]. *intermedia*

**Type Locality:** "Tezonapa y Presidio, Ver." [Veracruz, Mexico]

**Types:** "Holotype" in MGCL.

Genus **Itaballia** Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904[52](2): 204. Type-species: *Pieris pandosia* Hewitson, 1853, Ill. exot. Butts. 1(7): [8], pl. Pieris II [4], fig. 14, by original designation.

\*386. ***Itaballia demophile*** (Linnaeus, 1763)

In: Johansson, Cent. Ins. Rar.: 23, no. 66; cited Clerck [1764], Icon. Ins. 2: pl. 28, fig. 4 ♀ D&V, even though it was published later; often cited as from Amoen. acad. 6: 406, no. 65, a subsequent reprint.

**Original Combination:** *Papilio D[anaus]. Demophile*

**Type Locality:** "in Indiis"

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zoo. J. Linn. Soc. 132(3): 318.

= *amathonte* (Cramer, 1777)

Uitl. Kapellen 2(10): 29, pl. 116, figs. A ♂ D, B ♂ V; (16): 147 (index).



**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Amathonte*  
**Type Locality:** "Indes-Occidentales, à Essequibo et Demerara" [Guyana]  
**Types:** Type(s) possibly lost.

= *molphea* (Cramer, 1777)

Uitl. Kapellen 2(10): 29, pl. 116, figs. C ♀ D; (16): 149 (index).

**Original Combination:** *Pap[ilio]. Dan[aus]. Cand[idus]. Molphea*

**Type Locality:** "Indes-Occidentales, à Essequibo et Demerara" [Guyana]

**Types:** Type(s) possibly lost.

a. ***Itaballia demophile centralis*** Joicey & Talbot, 1928

Bull. Hill Mus. 2 (1): 21.

**Original Combination:** *Itaballia calydonia centralis*

**Type Locality:** "Quiriqua, Guatemala, 4,000-5,000 feet"

**Types:** Holotype (#662496) in BMNH.

Recorded from Texas by Dauphin *et al.* (2005), News Lepid. Soc. 47(2): 43, 46, 19 figs.

= *¶*"magna" Fruhstorfer, 1907

Stettiner Entomol. Ztg. 68(2): 276.

**Original Combination:** [*Perrhybris demophile calydonia*] forma *magna*

**Type Locality:** "Honduras... Columbien"; "syntypes" from "San Pedro Sula, Honduras."

**Types:** "Syntypes" in BMNH.

Genus ***Leptophobia*** Butler, 1870

Cist. Entomol. 1(3): 35, no. 18; 45, no. 18. Type-species: *Pieris eleone* E. Doubleday, 1847, in: Gen. diurn. Lepid. (1)(5): 50, pl. 6, fig. 6, by original designation.

\*387. ***Leptophobia aripa*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 528, no. 131.

**Original Combination:** *Pieris Aripa*

**Type Locality:** "Caracas" [Venezuela]

**Types:** Syntype possibly in MNHP or lost.

= *limbata* (Kirby, 1887)

Ann. Mag. Nat. Hist. (5)19: 361.

**Original Combination:** *Daptonura* [sic!] *limbata*

**Type Locality:** "Ecuador"

**Types:** Syntype (#720220) in BMNH, figured by Abadjiev (2006), Zootaxa 1143: pl. 46, figs. 367 ♀ D, 368 ♀ V.

= *¶*"deserta" Fruhstorfer, 1908

Int. Entomol. Z. 1(40): 305.

**Original Combination:** [*Leptophobia aripa elodia*] forma *deserta*

**Type Locality:** "Ecuador"; syntype in BMNH labeled "Ecuador, Baños." [Tungurahua]

**Types:** Syntype (#720231) in BMNH.

a. ***Leptophobia aripa elodia*** (Boisduval, 1836)

Spec. gén. Lépid. 1: 529-530, no. 134.

**Original Combination:** *Pieris Elodia*

**Type Locality:** "Mexique, Cuba?"

**Types:** Syntype (#720216) in BMNH.

Recorded from Texas by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 19.

Genus ***Pieris*** Schrank, 1801

Fauna boica 2(1): 152, no. 1981; 160-170, nos. 1283-1296. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Latreille (1810), Consid. gén. Anim. Crust. Arach. Ins.: 351, 440. Robbins and Henson (1986), J. Lepid. Soc. 40(2): 79-92, discussed the various generic arrangements and concluded that *Pieris* [with the following synonymy] forms a monotypic genus related to *Perrhybris* Hübner, [1825], *Itaballia* Kaye, 1904, and *Ganyra* Billberg, 1820.

= *¶Pieris* Latreille, 1804

Nouv. Dict. Hist. Nat. 24(Tab.): 180, 200. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by monotypy. Preoccupied by and a junior objective synonym of *Pieris* Schrank, 1801.

= *¶Mancipium* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97; I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 84. A junior objective synonym of *Pieris* Schrank, 1801.

= *¶Danaus* Oken, 1815

Lehrbuch Naturgesch. 3(Zool.)(1): 723. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Crotch (1872), Cist. Entomol. 1(4): 60. I.C.Z.N. *Opinion* 417 suppressed Oken's work, making this name unavailable. Preoccupied by *Danaus* Kluk, 1780, Zwierz. Hist. Nat. pocz. gospod. 4: 83, and a junior objective synonym of *Pieris* Schrank, 1801.

= *¶Ganoris* Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 61-62, no. 8; 86-90, nos. 1-10; tablet 1, no. 8; tablet 2, no. 8. Type-species: *Papilio brassicae*

Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by original designation. A junior objective synonym of *Pieris* Schrank, 1801.

= ‡*Andropodum* Hübner, 1822

Syst.-alph Verz.: 2-5, 7-9. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Hemming (1933), Entomol. 66(9)[844]: 199. A junior objective synonym of *Pieris* Schrank, 1801. This name was spelled "Antropodum" on page 3 of the original description, representing an incorrect original spelling.

= ‡*Tachyptera* Berge, 1842

Schmetterlingsbuch: 19, 92-105. Type-species: *Papilio brassicae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467-468, no. 58, by designation of Hemming (1934), Entomol. 67(2)[849]: 38. A junior objective synonym of *Pieris* Schrank, 1801.

= *Artogeia* Verity, 1947

Farfalle diurn. d'Italia 3: 192-193. Type-species: *Papilio napi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 60, by original designation.

napi group Robbins & Henson, 1986

J. Lepid. Soc. 40(2): 86.

388. ***Pieris angelika*** Eitschberger, [1984]

Herbipoliana 1(1): 340-342, 1(2): pl. 523, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 13-48, pl. 525, figs. 1-50, pl. 527, figs. 1-16, unassociated figs. 1017-1022, 1396-1406, 1598, 1599, 1602 ♂ genitalia, figs. 1581, 1582, 1584-1586 ♀ genitalia.

**Original Combination:** *Pieris angelika angelika*

**Type Locality:** "Canada, Yukon, Keno, 4600 ft."

**Types:** Holotype in MGCL.

This name was first proposed by Eitschberger (1981), Atalanta (Münnerstadt) 11(5): 367-370, but without a description; a *nomen nudum*.

389. ***Pieris marginalis*** Scudder, 1861

As first revisers, W. Barnes and McDunnough (1917), Check List Lepid. Bor. Am.: 3: no. 35, accorded precedence to *marginalis* over *pallida*, and Geiger and Shapiro (1992), Z. zool. Syst. Evolut.-forsch. 30(2): 118, accorded precedence to *marginalis* over *venosa*.

a. ***Pieris marginalis pseudobryoniae*** Fruhstorfer, 1909

Int. Entomol. Z. 3(16): 88.

**Original Combination:** [*Pieris napi*] *pseudobryoniae*

Fruhstorfer adopted *Pieris napi* var. *frigida pseudobryoniae* Verity [1908] to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ‡"pseudobryoniae" Verity, [1908]

Rhop. Palaearctica: 146 [31 Jan 1908]; pl. 32, fig. 36 ♀ D (lectotype), 37 ♀ D [30 Apr 1909]; ind. syst.: xxviii [31 Oct 1911].

**Original Combination:** [*Pieris napi*] var. *frigida* [forme] *pseudobryoniae*

**Type Locality:** "Nulato, Alaska" implied from the legend to pl. 32, fig. 36.

**Types:** Lectotype in MNHP (de Joannis collection), designated by Fruhstorfer (1909), Int. Entomol. Z. 3(16): 88, as "type."

As a quadrinomial, this name is unavailable (Code Article 45.5).

= *browni* Eitschberger, [1984]

Herbipoliana 1(1): 332; 1(2): pl. 519, figs. 27 ♂ D, 28 ♂ V (holotype); 29-36 ♂ & ♀, D & V.

**Original Combination:** *Pieris marginalis browni*

**Type Locality:** "Alaska, U. S. A., 'Seaward' Peninsula (korrekte Schreibweise is Seward Peninsula), Kongarok Rd., Mile 48, Big Creek, 750 ft."

**Types:** Holotype in MGCL.

b. ***Pieris marginalis shapiro*** Eitschberger, [1984]

Herbipoliana 1(1): 330; 1(2): pl. 519, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 13-26, unassociated figs. 1600, 1601 ♂ genitalia, 1583 ♀ genitalia.

**Original Combination:** *Pieris marginalis shapiro*

**Type Locality:** "U.S.A., Alaska, Yukon Delta Hooper Bay, Kikuktok Mt., 3 m"

**Types:** Holotype in MGCL.

c. ***Pieris marginalis hulda*** W. H. Edwards, 1869

Trans. Am. Entomol. Soc. 2(4): 370.

**Original Combination:** *Pieris Hulda*

**Type Locality:** "Kodiak" [Alaska]

**Types:** Neotype (possible holotype) in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 103, fig. 25 ♂ D & V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 67, fig. 24 ♂ D.

d. ***Pieris marginalis meckya*** Eitschberger, [1984]

Herbipoliana 1(1): 322; 1(2): pl. 515, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V, 29-36, pl. 517, figs. 1-36, pl. 519, figs. 1-6, unassociated fig. 1587 ♀ genitalia.

**Original Combination:** *Pieris marginalis meckya*

**Type Locality:** "U.S.A., Alaska, Little Susitna River, 1100 ft., Talkeetna Mts., 8 miles N. of Palmer"

**Types:** Holotype in MGCL.

Geiger and Shapiro (1992), Z. zool. Syst. Evolut.-forsch. 30(2): 117, treated this as a species-level taxon, but further research is needed to corroborate this arrangement.

= ‡"passosi" B. Warren, 1968

Entomol. Rec. & J. Var. 80(3): 62-64, pl. 4, figs. 3 ♂ V, 4 ♂ V, 5 ♀ V, 6 ♀ V.

**Original Combination:** *P[ieris]. passosi* Hybrid

**Type Locality:** "Palmer, south Alaska"

**Types:** "Syntypes" in AMNH.

Described as a hybrid between *hulda* and *oleracea*; until demonstrated otherwise, this name is unavailable (Code Article 1.3.3).

e. ***Pieris marginalis guppyi*** Eitschberger, [1984]

Herbipoliana 1(1): 324; 1(2): pl. 513, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5-20, 25-36 ♂&♀, D&V, pl. 515, figs. 1-22, pl. 531, figs. 14-17.

**Original Combination:** *Pieris marginalis guppyi*

**Type Locality:** "Alaska, Skagway"

**Types:** Holotype in CMNH.

= ‡postguppyi Eitschberger, [1984]

Herbipoliana 1(1): 324, pl. 513, fig. 21 ♂ D, 22 ♂ V, 23 ♀ D, 24 ♀ V.

**Original Combination:** *Pieris marginalis guppyi* gen. aest. *postguppyi*

**Type Locality:** "Alaska, Skagway"

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5).

f. ***Pieris marginalis tremblayi*** Eitschberger, [1984]

Herbipoliana 1(1): 327; 1(2): pl. 511, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V, 9-32 ♂&♀, D&V.

**Original Combination:** *Pieris marginalis tremblayi*

**Type Locality:** "Canada, British Columbia, Pink Mountain, 5000 ft., Alaska Highway, Mile 147"

**Types:** Holotype in MGCL.

g. ***Pieris marginalis reicheli*** Eitschberger, [1984]

Herbipoliana 1(1): 301; 1(2): pl. 507, figs. 25 ♂ D, 26 ♂ V (holotype); 27-34 ♂&♀, D&V; pl. 509, figs. 1-38; pl. 511, figs. 1-4, unassociated figs. 1346, 1369-1375, 1381, 1604-1606 ♂ genitalia, 1376, 1387, 1574-1579 ♀ genitalia.

**Original Combination:** *Pieris marginalis reicheli*

**Type Locality:** "Canada, British Columbia, Revelstoke"

**Types:** Holotype in MGCL.

= ‡"postreicheli" Eitschberger, [1984]

Herbipoliana 1(1): 301.

**Original Combination:** *Pieris marginalis reicheli* gen. aest. *postreicheli*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

h. ***Pieris marginalis marginalis*** Scudder, 1861

Proc. Boston Soc. Nat. Hist. 8: 183.

**Original Combination:** *Pieris marginalis*

**Type Locality:** "Gulf of Georgia...Crescent City, California"; lectotype from "Washington Territory." The "Gulf of Georgia" was interpreted to be "near Port Townsend, Wash. Terr." by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]

**Types:** Lectotype (#16598) in MCZ, designated by Eitschberger [1984], Herbipoliana 1(1): 284; (2): pl. 495, figs. 11 ♂ D, 12 ♂ V.

= *pallida* Scudder, 1861

Proc. Boston Soc. Nat. Hist. 8: 183.

**Original Combination:** *Pieris pallida*

**Type Locality:** "Gulf of Georgia"; interpreted to be "near Port Townsend, Wash. Terr." by H. Hagen (1883), Proc. Boston Soc. Nat. Hist. 22: 164. [Jefferson County, Washington]

**Types:** Syntypes (#16599) in MCZ.

= ‡"flava" W. H. Edwards, 1881

Papilio 1(6): 94, no. 3 (description), 98 (name).

**Original Combination:** [*Pieris Oleracea*] aberr. *Flava*

**Type Locality:** "Washington Terr."

**Types:** Type(s), if they can be identified, probably in CMNH.

This name might be interpreted as a *nomen nudum*.

i. ***Pieris marginalis sequoia*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (11): 128-131, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Pieris napi sequoia*

**Type Locality:** "California: Humboldt County; Prairie Creek Redwood State Park, 50 meters elevation"

**Types:** Holotype in LACM.

j. ***Pieris marginalis venosa*** Scudder, 1861

Proc. Boston Soc. Nat. Hist. 8: 182-183.

**Original Combination:** *Pieris venosa*

**Type Locality:** "San Mateo and Mendocino city [*sic!*], California"; lectotype from "San Mateo." [San Mateo County]

**Types:** Lectotype (#16597) in MCZ, designated by Eitschberger [1984], Herbipoliana 1(1): 253; (2): pl. 481, figs. 11 ♂ D, 12 ♂ V.

= ‡"flava" W. H. Edwards, 1881

Papilio 1(6): 89, no. 2 (description), 98 (name).



**Original Combination:** [*Pieris Venosa*] aberr. ♀ *Flava*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

This name might be interpreted as a *nomen nudum*.

k. *Pieris marginalis castoria* Reakirt, 1866

Proc. Acad. Nat. Sci. Philad. [18](3): 238, no. 2.

**Original Combination:** *Pieris castoria*

**Type Locality:** "California"; suggested to be "Castoria [= French Camp], San Joaquin County" by Shapiro [1978], J. Res. Lepid. 16(4): 197-200.

**Types:** Type(s) apparently lost.

= *†nasturtii* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 38-39, no. 7.

**Original Combination:** *Pieris Nasturtii*

**Type Locality:** "dans les champs decouverts au pied de la Juba"; defined as "Hwy. 70 at Soda Creek, E. Branch N. Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 24.

**Types:** Lectotype in USNM, designated by Verity [1908], Rhop. palae.: pl. 33, fig. 5 ♂ V, as "type"; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 165 ♂ D, 166 ♂ V.

Preoccupied by *Pieris nasturtii* W. H. Edwards, 1864, Proc. Entomol. Soc. Philad. 2: 501.

= *resedae* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 39, no. 8.

**Original Combination:** *Pieris Resedae*

**Type Locality:** "sur les bords du Sacramento" probably in error, as discussed by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 24-25.

**Types:** Holotype in USNM, figured by Verity [1908], Rhop. palae.: pl. 33, fig. 3 ♂ D, labeled "Californie"; subsequently figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 168 ♀ D, 169 ♀ V.

= *iberidis* Boisduval, 1869

Ann. Soc. Entomol. Belg. 12: 39, no. 9.

**Original Combination:** *Pieris Iberidis*

**Type Locality:** "dans les champs"; defined as "Hwy. 70 at Soda Creek, E. Branch N. Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25.

**Types:** Lectotype in USNM, designated by Verity [1908], Rhop. Palae.: pl. 32, fig. 43 ♀ D, as "type"; subsequently figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25, figs. 171 ♀ D, 172 ♀ V.

= *microstriata* J. A. Comstock, 1924

Bull. South. Calif. Acad. Sci. 23(4): 125; 23(5): pl. 8, figs. 12 ♂ D (holotype), 13 ♂ V, 14 ♀ D.

**Original Combination:** *Pieris napi microstriata*

**Type Locality:** "Eldredge, Sonoma County, California"

**Types:** Holotype in LACM.

= *†"cottlei"* Gunder, 1925

Entomol. News 36(7): 197-198, no. 9, pl. 5, fig. 9 ♂ D ("holotype").

**Original Combination:** *Pieris napi* var. *castoria* ab. ♂ *cottlei*

**Type Locality:** "Anderson Springs, Lake County, California"

**Types:** "Holotype" in AMNH.

l. *Pieris marginalis zieglerei* Eitschberger, 1991

Atalanta (Münnerstadt) 22(2-4): 353-354.

**Original Combination:** *Pieris marginalis zieglerei*

**Type Locality:** "U.S.A., Montana, Gallatin Co., Hwy 191 betw. West Yellowstone and Big Sky, 1800-2100m"

**Types:** Holotype in MGCL.

m. *Pieris marginalis pallidissima* W. Barnes & McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 59, pl. 6, figs. 4 ♂ D, 5 ♀ D (holotype), 10 ♂ V.

**Original Combination:** [*Pieris napi*] *pallidissima*

**Type Locality:** "Provo, Utah" [Utah County]

**Types:** Holotype in USNM.

= *†"antepallidissima"* Eitschberger, [1984]

Herbipoliana 1(1): 306.

**Original Combination:** *Pieris marginalis pallidissima* gen. vern. *antepallidissima*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

n. *Pieris marginalis pseudonapi* W. Barnes & McDunnough, 1916

Contr. Nat. Hist. Lepid. N. Am. 3(2): 57, pl. 6, figs. 1 ♂ D, 2 ♀ D, 3 ♀ D.

**Original Combination:** [*Pieris napi*] *pseudonapi*

**Type Locality:** "Silverton, Colo." [San Juan County, Colorado]

**Types:** Holotype in USNM.

C. Remington (1954) proposed *Pieris napi macdunnoughi* (below) because he thought the name *pseudonapi* proposed by W. Barnes and McDunnough was preoccupied. While *Pieris melete melete pseudonapi* Verity, [1908], Rhop. Palaearctica: 330, pl. 59, figs. 13, 14, 15, 16, 17, is a quadrinomial and therefore unavailable, *pseudonapi* W. Barnes and McDunnough was validly proposed and is available (Code Article 45.5).

= *macdunnoughii* C. Remington, 1954

Lepid. News 8(3/4): 75.

**Original Combination:** *Pieris napi macdunnoughii*

Proposed to replace *Pieris napi pseudonapi* W. Barnes and McDunnough (1916), but that name was validly proposed and is available; spelled "mcdunnoughi" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 72, representing an unjustified emendation.

‡"postmcdunnoughii" Eitschberger, [1984]

Herbipoliana 1(1): 309.

**Original Combination:** *Pieris marginalis mcdunnoughi* gen. aest. *postmcdunnoughii*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

o. ***Pieris marginalis mogollon*** Burdick, 1942

Can. Entomol. 74(8): 154-155.

**Original Combination:** *Pieris napi mogollon* race nov.

**Type Locality:** "Mogollon Range, Catron Co., New Mexico"

**Types:** Holotype (No. #5222) in CNC.

= ‡"warreni" dos Passos, 1965

J. N. Y. Entomol. Soc. 73(3): 136.

**Original Combination:** *Pieris narina mogollon* gen. aest *warreni*

**Type Locality:** "White Mountains of Arizona"

**Types:** "Holotype" in AMNH.

‡"postmogollon" Eitschberger, [1984]

Herbipoliana 1(1): 314.

**Original Combination:** *Pieris marginalis mogollon* gen. aest. *postmogollon*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5).

390. ***Pieris oleracea*** (T. Harris, 1829)

a. ***Pieris oleracea oleracea*** (T. Harris, 1829)

New England Farmer 7(51): 402.

**Original Combination:** *Pontia Oleracea*

**Type Locality:** "New Hampshire, and Massachusetts"

**Types:** Syntypes may be in MCZ.

= *cruciferarum* Boisduval, 1836

Spec. gén. Lépid. 1: 519, no. 119.

**Original Combination:** *Pieris Cruciferarum*

**Type Locality:** "les provinces septentrionales des Etats-Unis"; stated to be "New York and New England" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.

**Types:** Holotype in BMNH; figured by Verity [1908], Rhop. palae.: pl. 32, fig. 41 ♂ D, labeled "Am. boréale."

= *casta* W. Kirby, 1837

In: Richardson, Fauna Bor.-Am. [4]: 288, no. 1, pl. 3, fig. 1 ♂ D.

**Original Combination:** *Pontia Casta*

**Type Locality:** "taken in Lat. 65°"; stated to be "Great Bear Lake, Northwest Territories" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.

**Types:** Type(s) possibly in BMNH.

= ‡"hyemalis" W. H. Edwards, 1881

Papilio 1(6): 90, no. 3, 98, pl. 2, fig. 8 ♂ D&V.

**Original Combination:** [*Pieris*] *Oleracea hyemalis*

**Type Locality:** "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.

**Types:** "Type(s)" probably in CMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ‡"aestiva" W. H. Edwards, 1881

Papilio 1(6): 93, no. 3, 98, pl. 3, figs. 15 ♂ D&V, 16 ♀ D.

**Original Combination:** [*Pieris Oleracea*] summer brood *aestiva*

**Type Locality:** "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.

**Types:** "Type(s)" probably in CMNH.

= ‡"virginiensis" W. H. Edwards, 1881

Papilio 1(6): 95-98.

**Original Combination:** *Pieris Napi Oleracea Hyemalis* aberr. *virginiensis*

**Type Locality:** "New York"; suggested to be "Hunter, Greene Co., New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 71.

**Types:** "Type(s)" probably in CMNH.

As a polynomial, this name is unavailable (Code Article 45.5).

‡"postoleracea" Eitschberger, [1984]

Herbipoliana 1(1): 263.

**Original Combination:** *Pieris oleracea oleracea* gen. aest. et gen. aut. *postoleracea*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

b. *Pieris oleracea frigida* Scudder, 1861

Proc. Boston Nat. Hist. Soc. 8: 181-182.

**Original Combination:** *Pieris frigida*

**Type Locality:** "Caribou Island, Straits of Belle Isle"; lectotype from "Labrador." [Newfoundland and Labrador]

**Types:** Lectotype (#16596) in MCZ, designated by Eitschberger [1984], Herbipoliana 1(1): 264-265, pl. 485, fig. 3 ♀ D, 4 ♀ V.

= *borealis* (Grote, 1873)

Bull. Buff. Nat. Hist. Soc. 1(4): 185.

**Original Combination:** *Ganoris oleracea* var. *borealis*

**Type Locality:** "Island of Anticosti, which lies in the Gulf of St. Lawrence, between latitudes 49° and 50°" implied from the introduction. [Quebec]

**Types:** Location of type(s) not known, possibly in USNM.

= *acadica* W. H. Edwards, 1881

Papilio 1(6): 86-87, no. 1, 98, no. 1 of no. 3, 99, pl. 3, figs. 10 ♂ D&V, 11 ♀ D&V.

**Original Combination:** [*Pieris Bryoniae*] *Acadica*

**Type Locality:** "Southern Newfoundland"; defined as "base of Avalon Peninsula" by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 104. [Newfoundland and Labrador]

**Types:** Lectotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 105, fig. 26 ♂ D&V.

= *ekisi* Eitschberger, [1984]

Herbipoliana 1(1): 272, 1(2): pl. 493, figs. 1 ♂ D, 2 ♂ V (holotype); 3-10 ♂ & ♀, D&V.

**Original Combination:** *Pieris oleracea ekisi*

**Type Locality:** "Ferryland, dem östlichen Punkt der Insel Neufundlands" [Newfoundland and Labrador]

**Types:** Holotype (#11883) in CMNH.

= ‡"pseudoleracea" Verity, [1908]

Rhop. Palaearctica: 146 [31 Jan 1908]; pl. 32, fig. 38 ♂ V [30 Nov 1908]; ind. syst.: xxviii [31 Oct 1911].

**Original Combination:** [*Pieris napi*] var. *frigida* forme *pseudoleracea*

**Type Locality:** "Labrador" implied from the legend to plate 32. [Newfoundland and Labrador]

**Types:** "Holotype" in USNM.

As a quadrinomial, this name is unavailable (Code Article 45.5).

‡"vvida" Verity, [1911]

Rhop. Palaearctica: 334; ind. syst.: xxviii.

**Original Combination:** [*Pieris napi*] var. *frigida* [forme] *vvida*

**Type Locality:** Not stated; "Labrador" implied from the text.

**Types:** Location of "type(s)" not known.

This name was proposed without a description or indication; a *nomen nudum*.

‡"anteacadica" Eitschberger, [1984]

Herbipoliana 1(1): 336.

**Original Combination:** *Pieris acadica acadica* gen. vern. *anteacadica*

**Type Locality:** Not stated.

**Types:** No type(s) designated.

As a quadrinomial, this name is unavailable (Code Article 45.5); it is also a *nomen nudum*.

391. *Pieris virginiensis* W. H. Edwards, 1870

a. *Pieris virginiensis virginiensis* W. H. Edwards, 1870

Trans. Am. Entomol. Soc. 3(1): 10, 13-14, no. 5; figured by W. H. Edwards (1871), Butts. N. Am. [1] (8): pl. *Pieris* 2, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V, and (1881), Papilio 1(6): pl. 3, figs. 17 ♀ D, 18 ♂ D&V.

**Original Combination:** *Pieris Virginiensis*

**Type Locality:** "Kanawha district...London, Ontario"; defined as "Coalburgh, W. Va." by W. H. Edwards (1881), Papilio 1(6): 95-96; neotype from "the Kanawha River valley in the vicinity of Coalburgh, West Virginia." [Kanawha County, West Virginia]

**Types:** Neotype in CMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 101, fig. 24 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 34, fig. 14 ♂ D.

b. *Pieris virginiensis hyatti* Eitschberger, [1984]

Herbipoliana 1(1): 358; 1(2): pl. 529, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V, 19-36, pl. 531, figs. 1-11; unassociated figs. 542, 1023-1030 ♂ genitalia, 1589-1591 ♀ genitalia.

**Original Combination:** *Pieris virginiensis hyatti*

**Type Locality:** "Canada, Ontario, Halton Co. Forest, Campbellville"

**Types:** Holotype in MGCL.

rapae group Robbins & Henson, 1986

J. Lepid. Soc. 40(2): 86.

392. *Pieris rapae* (Linnaeus, 1758)

a. *Pieris rapae rapae* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 468, no. 59; cited Linnaeus (1746) Fauna Svecica: 243, no. 798, and many other works.



**Original Combination:** *P[apilio]. D[anaus candidus] Rapae*

**Type Locality:** Not stated; defined as "Sweden" by Verity (1947), *Farfalle diurn. d'Italia* 3: 232, based on the reference to *Fauna Svecica*.

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), *Zool. J. Linn. Soc.* 132(3): 377.

Most of the Palaearctic synonymy is not included.

= *metra* (Stephens, 1827)

*Illustr. Brit. Entomol., Haustellata* 1: 19-20 (1827); 146-147 (1828).

**Original Combination:** *Pontia Metra*

**Type Locality:** "at Hertford...at Ripley" [England]

**Types:** Probably no type(s) designated.

= *minor* (Costa, [1836])

*Fauna Regno Napoli*: [32], [311], pl. (*Lepid. Diurn*) 3, figs. 3, 4.

**Original Combination:** *Pontia Rapae* var. *Minor*

**Type Locality:** "Napoli" [Italy]

**Types:** Location of type(s) not known.

= *immaculata* de Selys-Longchamps, 1857

*Annls. Soc. Entomol. Belg.* 1: 5, no. 5.

**Original Combination:** [*Pieris Rapae*] Var. *Immaculata*

**Type Locality:** "Belgique" implied from the title of the paper.

**Types:** Syntypes possibly in Fologne collection.

= *yreka* Reakirt, 1866

*Proc. Acad. Nat. Sci. Philad.* [18](3): 238, no. 1.

**Original Combination:** *Pieris yreka*

**Type Locality:** "California"; L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* 2: 72, suggested that the syntype was a French specimen supplied by Lorquin with a false label.

**Types:** Syntype in FMNH.

If the label data on the syntype are correct, this species may have been introduced to North America on more than one occasion.

= *novangliae* (Scudder, 1872)

*Can. Entomol.* 4(4): 79; figured by Scudder (1889), *Butts. E. U. S. & Can.* 3(8): pl. 7, fig. 11 ♂ D&V.

**Original Combination:** [*Ganoris rapae*] variety *novangliae*

**Type Locality:** "Shelbourne [sic], N. H....Waterville, Me." [Shelburne, Coos County, New Hampshire, and Kennebec County, Maine]

**Types:** A supposed "syntype" (#16600) from "Shelburne, N. H." in MCZ.

= ‡*immaculata* Cockerell, 1889

*Entomol.* 22(311): 99; cited Newman [1871], *Brit. Butts.*: 161.

**Original Combination:** *Pieris rapae immaculata*

**Type Locality:** Not stated.

**Types:** Location of type(s) not known.

Preoccupied by *Pieris rapae immaculata* de Selys-Longchamps, 1857, *Annls. Soc. Entomol. Belg.* 1: 5, no. 5.

= ‡*immaculata* Skinner & E. "aron, 1889

*Can. Entomol.* 21(7): 128-129.

**Original Combination:** *Pieris rapae*, var. *immaculata*

**Type Locality:** "vicinity of Philadelphia" [Philadelphia County, Pennsylvania]

**Types:** "Holotype" (#902) in CMNH.

The text clearly indicates that this taxon was described as an individual variant.

= ‡*aestivus* Verity, 1913

*J. Linn. Soc. Lond., Zool.* 32(215): 177-178.

**Original Combination:** [*Pieris rapae* summer brood] *aestivus*

**Type Locality:** Not stated.

**Types:** No types designated.

Probably a *nomen nudum*.

#### Genus *Pontia* [Fabricius], 1807

*In:* Illiger, *Mag. f. Insektenk.* 6: 283, no. 23. Type-species: *Papilio daplidice* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 468, no. 62, by designation of J. Curtis (1824), *Brit. Entomol.* 1(12): pl. 48, [1]. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 704.

= ‡*Mancipium* Hübner, [1807]

*Samml. exot. Schmett.* 1: pl. [141]. Type-species: *Mancipium hellica* Hübner, [1807], *Samml. exot. Schmett.* 1: pl. [141], figs. 1, 2, 3, 4, by monotypy (= *Papilio helice* Linnaeus, 1767, *Syst. Nat.* (ed. 12) 1(2): 760, no. 78, incorrect subsequent spelling). I.C.Z.N. *Opinion* 137 suppressed this name; I.C.Z.N. *Direction* 4 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 214.

= ‡*Pontia* [Illiger], 1807

*Allg. Lit.-Zeit.* 2(303): 1180. Type-species: *Papilio helice* Linnaeus, 1767, *Syst. Nat.* (ed. 12) 1(2): 760, no. 78, by monotypy. I.C.Z.N. *Opinion* 232 suppressed this name and placed it on the *Official Index of Rejected and Invalid Generic names in Zoology* as name no. 46.

- = *Synchlœ* Hübner, 1818  
Zutr. Samml. exot. Schmett. 1: 26, no. 76. Type-species: *Papilio callidice* Hübner, [1800], Samml. europ. Schmett. 1: pl. Pap. 81, figs. 408, 409; 63. no. 5, pl. 108, figs. 551, 552, by designation of Butler (1870), Cist. Entomol. 1(3): 51.
  - = ‡*Mancipium* Stephens, 1827  
Ill. Brit. Entomol., Haustellata 1: 22. Type-species: *Papilio daplidice* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 62, by designation of Koçak (1982), Priamus 1(4): 155. Preoccupied by *Mancipium* Hübner, [1807], and a junior objective synonym of *Pontia* [Fabricius], 1807.
  - = ‡*Parapieris* de Nicéville, 1897  
J. asiat. Soc. Bengal, Pt. II 66(3): 563. Type-species: *Papilio callidice* Hübner, [1800], Samml. europ. Schmett.: pl. Pap. 81, figs. 408, 409; 63, no. 5, pl. 108, figs. 551, 552, by original designation. A junior objective synonym of *Synchlœ* Hübner, [1818].
  - = ‡*Leucochlœ* Röber, 1907  
In: Seitz, Grossschmett. Erde 1(12): 49. Type-species: *Papilio daplidice* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 468, no. 62, by designation of Klotz (1933), Entomol. Am. (n.s.) 12(4): 212. A junior objective synonym of *Pontia* [Fabricius], 1807.
  - = *Pontieuchloia* Verity, 1929  
Annls. Soc. Entomol. Fr. 98(3): 347. Type-species: *Papilio chloridice* Hübner, [1813], Samml. europ. Schmett. 1: pl. Pap. 141, figs. 712-715, by monotypy.
393. ***Pontia beckerii*** (W. H. Edwards, 1871)  
Butts. N. Am. 1(8): [30]-[31], pl. Neophasia Pieris 1, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, 7 ♀ V; also figured by W. H. Edwards (1883), 2(11): pl. Pieris I, figs. 8 ♂ D, 9 ♂ V.  
**Original Combination:** *Pieris beckerii*  
**Type Locality:** "Virginia City, Nevada" [Storey County]  
**Types:** Lectotype in AMNH, designated by F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 115, fig. 29 ♂ D&V.  
This taxon has been considered a subspecies of *Pontia chloridice* (Hübner, [1813]), Samml. europ. Schmett.: pl. Pap. 141, figs. 712-715, by Higgins and N. Riley (1970), Field Guide Butts. Brit. Eur.: 47, Higgins (1975), Class. Europ. Butts.: 75, and Scott (1986), Butts. N. Am.: 220, no. 79. However, Coutsis and Tolman (1996), Linn. Belg. 15(7): 271-272, identified larval characters that support the species-level separation of *P. chloridice* and *P. beckerii*.
- = ‡"pseudochloridice" (McDunnough, 1928)  
Can. Entomol. 60(11): 266-267.  
**Original Combination:** [*Pieris beckerii*] [early spring generation] *pseudochloridice*  
**Type Locality:** "Oliver, B. C." [British Columbia]  
**Types:** "Holotype" (#2861) in CNC.
  - = ‡"gunderi" (Ingham, 1933)  
Pan-Pac. Entomol. 9(2): 75.  
**Original Combination:** *Ascia beckerii gunderi* new tr. f.  
**Type Locality:** "Bouquet Canyon, Los Angeles County, Calif." [California]  
**Types:** "Holotype" in CAS.
394. ***Pontia protodice*** (Boisduval & Le Conte, [1830])  
Hist. Lépid. Amér. sept. 1(5): 45-46, (6): pl. 17, figs. 1 ♀ D, 2 ♂ D, 3 ♀ V.  
**Original Combination:** *P[ieris]. Protodice*  
**Type Locality:** "aux environs de New-York...dans le Connecticut"; suggested to be "New York" by Calhoun (2004), J. Lepid. Soc. 58(3): 155.  
**Types:** A "type" supposedly in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such Boisduval "types."
- = *nasturtii* (W. H. Edwards, 1864)  
Proc. Entomol. Soc. Philad. 2[4]: 501, no. 1.  
**Original Combination:** *Pieris Nasturtii* Boisduval, *in lit.*  
**Type Locality:** "San Francisco" [San Francisco County, California]  
**Types:** Type(s) lost.
  - = *vernalis* (W. H. Edwards, 1864)  
Proc. Entomol. Soc. Philad. 2[4]: 501-502, no. 2; figured by W. H. Edwards (1871), Butts. N. Am. [1](8): pl. Pieris 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Pieris Vernalis*  
**Type Locality:** "Red Bank, New Jersey...the Rocky Mountains"  
**Types:** Type(s) lost.
395. ***Pontia occidentalis*** (Reakirt, 1866)  
Shapiro (1976), J. Lepid. Soc. 30(4): 289-300, demonstrated species-level distinction between *P. occidentalis* and *P. protodice*.
- a. ***Pontia occidentalis occidentalis*** (Reakirt, 1866)  
Proc. Entomol. Soc. Philad. 6[1]: 133-134.  
**Original Combination:** *Pieris Occidentalis*  
**Type Locality:** "Rocky Mountains, Colorado Territory; California"; defined as "vic. Empire Creek, Clear Creek Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 70-71.  
**Types:** Holotype in FMNH.
  - = *calyce* (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(2): 189, no. 1.  
**Original Combination:** *Pieris Calyce*  
**Type Locality:** "Nevada"; defined as "vicinity of Virginia City, Nevada" by F. Brown (1973), Trans. Am. Entomol. Soc.

- 99(1): 108. [Storey County]  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 67, fig. 26 ♂ D, and F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 109, fig. 27 ♂ D&V.
- b. ***Pontia occidentalis nelsoni*** (W. H. Edwards, 1883)  
 Butts. N. Am. 2(11): [71]-[72], pl. Pieris 1, figs. 6 ♂ D, 7 ♂ V.  
**Original Combination:** *Pieris Nelsoni*  
**Type Locality:** "St. Michael's Alaska"  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 67, fig. 29 ♂ D, and F. Brown (1973), Trans. Am. Entomol. Soc. 99(1): 111, fig. 28 ♂ D&V.  
 Chew and Watt (2006), Biol. J. Linn. Soc. 88(3): 423, 425, suggested that *nelsoni* may be a species-level taxon.
396. ***Pontia sisymbrii*** (Boisduval, 1852)
- a. ***Pontia sisymbrii sisymbrii*** (Boisduval, 1852)  
 Anns. Soc. Entomol. Fr. (2)10(2): 284, no. 8.  
**Original Combination:** *Pieris sisymbrii*  
**Type Locality:** "Californie" implied from the title of paper; listed as "dans les plaines du Sacramento" by Boisduval (1869), Anns. Soc. Entomol. Belg. 12: 40, no. 10; defined as "1 mile NE of Storrie on Hwy 70, North Fork Feather River Canyon, 2,000' elevation, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 8.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 8, figs. 3 ♀ D, 4 ♀ V.  
 = ⚡"flava" (W. H. Edwards, 1883)  
 Butts. N. Am. 2(11): [68-69], pl. Pieris 1, fig. 5 ♀ D.  
**Original Combination:** [*Pieris Sisymbrii*] var. *Flava*  
**Type Locality:** "California" implied from the text.  
**Types:** "Syntype" in CMNH, labelled from "California."  
 The text clearly indicates that this taxon was described as an individual variant.
- b. ***Pontia sisymbrii nigravenosa*** Austin & J. Emmel, 1998  
 Syst. W. N. Am. Butts. (42): 505, figs. 19 ♂ D, 20 ♂ V (holotype); 21 ♀ D, 22 ♀ V.  
**Original Combination:** *Pontia sisymbrii nigravenosa*  
**Type Locality:** "Nevada: Clark County; Spring Mountains, 2 road miles north of Red Cloud Mine, 1830 m, T24S R58E S5 on USGS Goodsprings, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- c. ***Pontia sisymbrii transversa*** R. Holland, 1995  
 J. Lepid. Soc. 49(2): 125-127, fig. 5 ♂ D, 5a ♂ V (holotype).  
**Original Combination:** *Pontia sisymbrii transversa*  
 R. Holland adopted *Ascia sisymbrii* gen. vern *transversa* W. Barnes & Benjamin, 1926 to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
 = ⚡"transversa" (W. Barnes & Benjamin, 1926)  
 Bull. South. Calif. Acad. Sci. 25(3): 88, no. 33.  
**Original Combination:** *Ascia sisymbrii* gen. vern *transversa*  
**Type Locality:** "Paradise, Cochise County, Ariz.; Redington, Ariz."; holotype from "Paradise." [Arizona]  
**Types:** "Holotype" in USNM.
- d. ***Pontia sisymbrii elivata*** (W. Barnes & Benjamin, 1926)  
 Bull. South. Calif. Acad. Sci. 25(3): 88, no. 33a.  
**Original Combination:** *Ascia sisymbrii* race *elivata*  
**Type Locality:** "Glenwood Springs, Colo." [Garfield County, Colorado]  
**Types:** Holotype USNM.
- e. ***Pontia sisymbrii nordini*** (K. Johnson, 1977)  
 J. Lepid. Soc. 31(13): 167-169, figs. 1A ♂ D, 1B ♂ V (holotype); 1C ♀ D, 2D ♀ V, 2(2) ♂ genitalia.  
**Original Combination:** *Pieris sisymbrii nordini*  
**Type Locality:** "Monroe Canyon, Sioux Co., Nebraska"  
**Types:** Holotype in AMNH.
- f. ***Pontia sisymbrii flavitincta*** (J. A. Comstock, 1924)  
 Bull. South. Calif. Acad. Sci. 23(1): 19-20, pl. 7, fig. 9 ♀ D (holotype).  
**Original Combination:** *Pieris [sisymbrii] flavitincta*  
**Type Locality:** "Cranbrook, British Columbia"  
**Types:** Holotype in LACM.  
 Supposedly proposed as a replacement name for *flava* W. H. Edwards, 1883, but the description, type locality, and type designation make this an available name.
- g. ***Pontia sisymbrii beringiensis*** C. Guppy & Kondla, 2001  
 Butts. B.C.: 145-146, figs. ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Pontia sisymbrii beringiensis*  
**Type Locality:** "BC, Atlin, 9 km N on Atlin Rd at Ruffner Mine Rd."  
**Types:** Holotype in BCPM.

Genus *Ascia* Scopoli, 1777

Intro. Hist. Nat.: 434, no. 175. Type-species: *Papilio monuste* Linnaeus, 1764, Mus. Lud. Ulr.: 237, no. 56, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 61.



397. *Ascia monuste* (Linnaeus, 1764)a. *Ascia monuste monuste* (Linnaeus, 1764)

Mus. Lud. Ulr. [1]: 237, no. 56.

**Original Combination:** *P[apilio] D[anaus]. C[andidus]. Monuste*

**Type Locality:** "in Exteris terris"; stated to be "Barbaria" by Linnaeus (1767), Syst. Nat. (ed. 12) 1(2): 760, no. 80; listed as "America" by Fabricius (1775), Syst. Entomol.: 470, no. 117, citing Kleeman (1761), Beytr. Nat. Ins. 1: 31, pl. 3, fig. 3 ♂ D ("Westindianische"); further defined as "Surinam" by W. Comstock (1943), Am. Mus. Novit. (1229): 2.

**Types:** Type(s) apparently lost.

W. Comstock (1943), *ibid.*, discussed the identity of this taxon.

= *‡heliades* (Billberg, 1820)

Enum. Ins. Mus. Billb.: 76; cited Aeg. Monuste Fbr., in reference to *Papilio monuste* Linnaeus, 1764.

**Original Combination:** [*Cepora*] *Heliades*

Proposed to replace *Papilio monuste* Linnaeus, 1764, Mus. Lud. Ulr. [1]: 237, no. 56, erroneously thought preoccupied.

A junior objective synonym of *Papilio monuste*.

= *feronia* (Stephens, 1828)

Ill. Brit. Entomol., Haustellata: 149-150; cited Stephens (1829) Cat. Appendix, II.

**Original Combination:** *Po[ntia]. Feronia*

**Type Locality:** "Prise en Angleterre" inferred from Ernst (1779), Pap. Europ.: 209.

**Types:** Type(s) may be in BMNH.

= *albusta* (Sepp, [1851])

Surinaam. Vlinders [3](36): pl. 141.

**Original Combination:** *Papilio Albusta*

**Type Locality:** "Surinam" implied from the title of the work.

**Types:** Type(s) are lost.

= *crameri* W. Holland, 1931

Ann. Carnegie Mus. 20(2): 256-257; cited *Papilio monusta* (*sensu* Cramer (1777), Uitl. Kapellen 2(12): pl. 141, fig. F); figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, fig. 17, as "type."

**Original Combination:** *Ascia monuste* var. *crameri*

**Type Locality:** Not stated; suggested to be "Surinam" by Calhoun (1997), Holarct. Lepid. 4(1): 25-26.

**Types:** Holotype possibly in BMNH.

The "type" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 67, fig. 17, was a "typical" example, not a true type.

b. *Ascia monuste phileta* (Fabricius, 1775)

Syst. Entomol.: 471, no. 119.

**Original Combination:** *P[apilio]. D[anaus]. C[andidus]. Phileta*

**Type Locality:** "America"; suggested to be "Florida" by W. Comstock (1943), Am. Mus. Novit. (1229): 3.

**Types:** Type(s) probably lost.

= *cleomes* (Boisduval & Le Conte, [1830])

Hist. Lépid. Amér. sept. (5): 43-44; (6): pl. 16, figs. 1 ♂ D, 2 ♀ D, 3 ♀ V, 4 larva, 5 pupa.

**Original Combination:** *P[ieris]. Cleomes*

**Type Locality:** "la Géorgie et la Virginie...dans la Floride"; suggested to be "Savannah, Chatham County, Georgia" by Calhoun (2004), J. Lepid. Soc. 58(3): 160.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. A "type" in USNM is not consistent with the description of this taxon. Calhoun (2004), J. Lepid. Soc. 58(3): 156, 158-160, detailed this synonymy.

‡"nigra" Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Ascia monuste* female form *nigra*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

c. *Ascia monuste eubotea* (Godart, 1819)

In: Enc. méth. 9(Ins.) (1): (11), 144, no. 90.

**Original Combination:** *Pieris Eubotea*

**Type Locality:** Not stated; suggested to be "Antilles" by W. Comstock (1943), Am. Mus. Novit. (1229): 3.

**Types:** Location of type(s) not known.

The occurrence of this taxon in southern Florida was detailed by Calhoun (1997), Holarct. Lepid. 4(2): 44.

= *evonima* (Boisduval, 1836)

Spec. gén. Lépid. 1: 493, no. 84.

**Original Combination:** *Pieris Evonima*

**Type Locality:** "Cuba"

**Types:** Syntype (#720241) in BMNH.

= *vallei* (Boisduval, 1836)

Spec. gén. Lépid. 1: 494-495, no. 86.

**Original Combination:** *Pieris Vallei*

**Type Locality:** "Cuba"

**Types:** Location of type(s) not known.

= *joppe* (Boisduval, 1836)

Spec. gén. Lépid. 1: 495, no. 87.

**Original Combination:** *Pieris Joppe*

**Type Locality:** "Cuba"

**Types:** Syntype (#720243) in BMNH.

Genus **Ganyra** Billberg, 1820

Enum. Ins. Mus. Billberg: 76. Type-species: *Papilio amaryllis* Fabricius, 1793, Entomol. Syst. 3(1): 189-190, no. 586 (= *Pieris josephina* Godart, 1819, Ency. méth. 9(Ins.) (1): (115), 158, no. 136; homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 178, no. 466.

\*398. **Ganyra josephina** (Godart, 1819)

Ency. méth. 9(Ins.) (1): (115), 158, no. 136.

**Original Combination:** *Pieris Josephina*

**Type Locality:** Not stated; suggested to be "Hispaniola" by W. Comstock (1943), Am. Mus. Novit. (1229): 5; syntypes from "St. Domingo and Mexico," as documented by Grimshaw (1897), Trans. R. Soc. Edinburgh 39, part I(1): 6.

**Types:** Syntypes in MNHP and RSME.

a. **Ganyra josephina josepha** (Salvin & Godman, 1868)

Ann. Mag. Nat. Hist. (4)2(8): 150, no. 22.

**Original Combination:** *Pieris Josepha*

**Type Locality:** "Guatemala (valley of the Polochic) and Mexico (Oaxaca), Nicaragua"; lectotype from "Polochic, Guatemala."

**Types:** Lectotype (#720254) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 57, pl. 66, figs. 523 ♀ D, 524 ♀ V.

= *protasia* (Fruhstorfer, 1907)

Soc. Entomol. 22(18): 139.

**Original Combination:** [*Pieris*] *amaryllis protasia*

**Type Locality:** "Honduras...Nicaragua"; lectotype from "San Pedro Sula, Honduras."

**Types:** Lectotype (#720246) in BMNH, designated by Abadjiev (2006), Zootaxa 1143: 100, pl. 66, figs. 525 ♂ D, 526 ♂ V.

= *gervasia* (Fruhstorfer, 1907)

Soc. Entomol. 22(18): 139.

**Original Combination:** [*Pieris amaryllis josepha*] ♀ forma *gervasia*

**Type Locality:** "Süd-Mexiko"

**Types:** "Syntype" (#720245) in BMNH.

399. **Ganyra howarthi** (Dixey, 1915)

Trans. Entomol. Soc. Lond. (4)1915[63](1)(1): 12-15, no. 6, pl. 2, figs. 7 ♂ D, 8 ♂ V, 9 ♀ D, 10 ♀ V.

**Original Combination:** *Pieris howarthi*

**Type Locality:** "sea-level, at Tembabichi Bay, Lower California, Lat. 26°5' N" [Baja California Sur, Mexico]

**Types:** Syntypes in UMO.

Bailowitz (1988), J. Res. Lepid. 26(1-4): 73-81, detailed the species-level status of this taxon.

= *kuschei* (Schaus, 1920)

Proc. U. S. Nat. Mus. 57(2307): 109-110.

**Original Combination:** *Pieris kuschei*

**Type Locality:** "Mazatlan, Mexico"; suggested to be "San Miguel, nr. Los Mochis, Sinaloa, Mexico" by Bailowitz (1988), J. Res. Lepid. 26: 73-81.

**Types:** Syntypes (#22398) in USNM; one figured by Abadjiev (2005), Zootaxa 1022, figs. 4 ♂ D, 5 ♂ V, 6 labels.

Beutelspacher (1986), An. Inst. Biol., Univ. Nac. Autón. Méx., ser. Zool. 57(2): 313, 314-315, figs. 21 ♂ D, 22 ♀ D, 27 ♂ V, 28 ♀ V, 29 ♂ genitalia, detailed this taxon.

Family **LYCAENIDAE** [Leach], [1815]

In: Brewster, Edin. Ency. 9: 129 (as "Lycaenida"). Type-genus: *Lycaena* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 285, no. 32.

Subfamily **Miletinae** Reuter, 1896 (1886)

Acta Soc. Sci. fenn. 22(1): 551, 556 (as "Miletidi"). Type-genus: *Miletus* Hübner. [1819], Verz. bekannt. Schmett. (5): 71. The family-group name Miletinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Gerydinae Doherty, 1886, J. asiat. Soc. Bengal 55, Pt. II(2): 110, 131, is senior.

Tribe **Miletini** Reuter, 1896 (1886)

Subtribe **Spalgina** Toxopeus, 1929

Tijdschr. Entomol. 72(3/4): 218, II (as "Spalgiinae"). Type-genus: *Spalgis* Moore, 1879, Proc. Zool. Soc. Lond. 1879(1): 137.

Genus **Feniseca** Grote, 1869

Trans. Am. Entomol. Soc. 2(3): 308. Type-species: *Hesperia tarquinius* Fabricius, 1793, Entomol. Syst. 3(1): 319, no. 207, by original designation.

400. *Feniseca tarquinius* (Fabricius, 1793)a. *Feniseca tarquinius tarquinius* (Fabricius, 1793)

Entomol. Syst. 3(1): 319, no. 207; cited Jones' Icones 6: pl 45, fig. 4; figured by Donovan (1800), Epit. Ins. India: pl. 44, fig. 1 (a copy from Jones' Icones).

**Original Combination:** *H[esperia]*. *R[urales]*. *Tarquinius*

**Type Locality:** "Indiis Dom. Francillon"

**Types:** Type(s) probably lost.

= *crataegi* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (13): pl. 37, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 larva, 5 pupa; (14): 128-129; cited *Hesperia tarquinius* Fabricius, 1793, Entomol. Syst. 3(1): 319, no. 207, Donovan (1800), Epit. Ins. India: pl. 44, fig. 1, and *Erycina tarquinius* Godart, [1824], in: Ency. méth. 9(Ins.) (2): 580, no. 77.

**Original Combination:** *P[olyommatus]* *Crataegi*

**Type Locality:** "Géorgie"

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.

= *porsenna* (Scudder, 1863)

Proc. Essex Inst. 3: 163-164, no. 12.

**Original Combination:** *Polyommatus* *Porsenna*

**Type Locality:** "Aroostook Co., Me....Norway, Me." [Norway is in Oxford County, Maine]

**Types:** Type(s) may be in MCZ.

= ♀ "suffusa" Dean, 1918

Lepidoptera 2(8): 60.

**Original Combination:** *Feniseca tarquinius* var. *suffusa*

**Type Locality:** "Meramec Highlands" [Above the Meremac River, St. Louis-Jefferson counties, Missouri]

**Types:** Location of "Holotype" not known.

b. *Feniseca tarquinius novascotiae* McDunnough, 1935

Can. Entomol. 67(7): 212.

**Original Combination:** [*Feniseca tarquinius*] *nova-scotiae*

**Type Locality:** "S. Milford, N. S." [Nova Scotia]

**Types:** Holotype (#3995) in CNC.

Layberry *et al.* (1998), Butts. Can.: 119, did not recognize subspecies within *F. tarquinius*.

Subfamily **Lycaeninae** [Leach], [1815]

Tribe **Lycaenini** [Leach], [1815]

Genus **Lycaena** [Fabricius], 1807

In: Illiger Mag. f. Insektenk. 6: 285, no. 32. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, by designation of J. Curtis (1824), Brit. Entomol. 1(3): pl. 12, [1]. American species in this genus were reviewed by Pratt and D. Wright (2003), Pan-Pac. Entomol. 78(4): 219-229.

Subgenus **Lycaena** [Fabricius], 1807

= ♀ *Lycia* Sodoffsky, 1837

Bull. Soc. Imp. Nat. Moscou 10(6): 81-82, no. 9. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, as a replacement name. An unjustified emendation of *Lycaena*.

= ♀ *Migonitis* Sodovsky, 1837

Bull. Soc. Imp. Nat. Moscou 10(6): 82, 06, no. 9. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, as a replacement name. Preoccupied by *Migonitis* Rafinesque, 1815, Analyse Nat.: 147.

= ♀ *Rumicia* Tutt, 1906

Entomol. Rec. & J. Var. 18(5): 131. Type-species: *Papilio phlaeas* Linnaeus, 1761, Fauna Svecica (ed. 2): 285, no. 1078, by original designation. A junior objective synonym of *Lycaena*.

\*401. *Lycaena phlaeas* (Linnaeus, 1761)

Fauna Svecica (ed. 2): 285, no. 1078; cited Linnaeus (1746), Fauna Svecica: 247, 248, no. 807, Merian (1730), Europ. Ins.: pl. 164, Petiver (1699), Mus. Petiver. Cent. Rar. Nat. Cont. (4/5): 34, no. 317, and Ray (1710), Hist. Ins.: 125, no. 20.

**Original Combination:** *P[apilio]*. *P[lebejus ruricola]*. *Phlaeas*

**Type Locality:** "in pratis Westmanniae" [Vestmanland, Sweden]

**Types:** Type(s) apparently lost, as noted by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 365.

= *eleus* (Fabricius, 1798)

Entomol. Syst. 3(suppl.): 430.

**Original Combination:** *H[esperia]*. *R[urales]*. *Eleus*

**Type Locality:** "Germania"

**Types:** Syntype in ZMUC.

a. *Lycaena phlaeas hypophlaeas* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 291, no. 23.



**Original Combination:** *Polyommatus Hypophlaeas*

**Type Locality:** "Nord de la California"; suggested to be "the Sierra Nevada Mountains, California...could well have been the gold region in Tuolumne County" by Shields [1968], J. Res. Lepid. 6(1): 22; lectotype from "vicinity of Boston Massachusetts."

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12, figs. 33 ♂ D, 34 ♂ V.

The identity of the lectotype dictates the current synonymy. Opler (1999), Field Guide W. Butts.: 187, suggested that this taxon represents a human-assisted introduction to the New World, without supporting evidence.

= *americana* T. Harris, 1862

Ins. injur. Veget. (3rd ed.): 273-274, fig. 104 ♀ D&V.

**Original Combination:** *Lycaena Americana*

**Type Locality:** "Massachusetts" implied from the title of the first edition of the book.

**Types:** Type(s) probably in MCZ.

This name was listed by d'Urban (1860), Can. Nat. Geol. 5(2): 91, no. 21, and (1860), Can. Nat. Geol. 5(4): 246, no. 1 (both times citing T. Harris), without a description or indication; *nomina nuda*.

= ♀ "fasciata" (Strecker, 1878)

Butts. Moths N. Am., Comp. Syn. Cat.: 101, no. 158a.

**Original Combination:** [*Chrysophanus Phlaeas* var. *Americana*] ab. a. ♀ *Fasciata*

**Type Locality:** "Florida" apparently in error.

**Types:** "Holotype" in FMNH; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 45 ♀ D.

= ♀ "fulliolus" (Hulst, 1886)

Entomol. Am. 2(9): 182.

**Original Combination:** *Chrysophanus americanus* ab. *fulliolus*

**Type Locality:** Not stated; "holotype" from "Long Island" recorded by Ottolengui (1895), Entomol. News 6(7): 217. [New York]

**Types:** "Holotype" in USNM.

= ♀ "obliterata" (Scudder, 1889)

Butts. E. U. S. & Can. 2(7): 1001-1002; cited a specimen figured by Maynard (1886), Butts. N. Engl.: pl. 5, figs. 52, 52a.

**Original Combination:** *H[ecodes]. h[yphophaeas]. [ab.] obliterata*

**Type Locality:** "New England" implied from the title of Maynard's book.

**Types:** "Holotype" probably lost, possibly in MCZ.

= ♀ "adrienne" (Maynard, 1891)

Manual N. Am. Butts.: 153, no. 395b.

**Original Combination:** *Chrysophanus phlaeas adrienne*

**Type Locality:** "Eastern Massachusetts"

**Types:** Location of "holotype" not known, possibly in MCZ.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "caeca" (Reiff, 1913)

Entomol. News 24(7): 306, pl. 10, figs. 3 ♂ D, 4 ♂ V ("Holotype").

**Original Combination:** *Heodes phlaeas* f. nov. *caeca*

**Type Locality:** "West Roxbury, Mass." [Suffolk County, Massachusetts]

**Types:** "Holotype" probably in MCZ.

= ♀ "octomaculata" (Dean, 1918)

Lepidoptera 2(8): 60.

**Original Combination:** *Chrysophanus hypophlaeas* ab. *octomaculata*

**Type Locality:** "the southwestern portion of the city" [St. Louis, St. Louis County, Missouri]

**Types:** Location of "holotype" not known.

= ♀ "banksi" (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 454-455.

**Original Combination:** *Heodes hypophlaeas hypophlaeas* ab. *banksi*

**Type Locality:** "Lexington, Massachusetts" [Middlesex County]

**Types:** "Holotype" (#15956) in MCZ.

= ♀ "fulvus" (Rummel, 1929)

Bull. Brooklyn Entomol. Soc. 23(5): 268.

**Original Combination:** *Heodes hypophlaeas* ab. *fulvus*

**Type Locality:** "Green Village, N. J....Old Bridge, N. J." [Green Village, Morris County; Old Bridge, Middlesex County, New Jersey]

**Types:** "Holotype" in AMNH.

= ♀ "neui" (Rummel, 1929)

Bull. Brooklyn Entomol. Soc. 23(5): 268.

**Original Combination:** *Heodes hypophlaeas* ab. *neui*

**Type Locality:** "Hillside, N. J." [Union County, New Jersey]

**Types:** "Holotype" in AMNH.

♀ "bacchus" Scudder, 1889

Butts. E. U. S. & Can. 2(7): 998.

**Original Combination:** [*Heodes hypophlaeas*] = *Lycaena bacchus* Harr. manuscript

A manuscript name credited to T. Harris, listed in the synonymy of *americana* without description or indication;

a *nomen nudum*.

- b. *Lycaena phlaeas feildeni* (M'Lachlan, 1878)  
J. Linn. Soc. Lond., Zool. 14(74): 111.  
**Original Combination:** *Chrysophanus phlaeas* [sic!] *Feildeni*  
**Type Locality:** "lat. 81° 41' N"; holotype from "Grinnell Land, W. side of Smith Sound 81°45' N," which probably refers to Smith Sound on SE Ellesmere Island. [Nunavut]  
**Types:** Holotype in BMNH.  
This name is often misspelled "*fieldeni*."
  - c. *Lycaena phlaeas arethusa* (Dod, 1907)  
Can. Entomol. 39(5): 169-170.  
**Original Combination:** *Chrysophanus arethusa*  
**Type Locality:** "the foothills...Lineham's lower log camp, south fork of Sheep Creek...about thirty-five miles south-west of Calgary...Alberta...near the spruce woods about ten or fifteen miles nearer Calgary"; Kondla (1996), Alberta Naturalist 26(2): 39, defined this as "the head of Fish Creek, Alberta."  
**Types:** Syntypes in USNM.
  - d. *Lycaena phlaeas arctodon* Ferris, 1974  
Bull. Allyn Mus. (18): 4-5, figs. 17 ♂ D&V (holotype), 18 ♀ D&V.  
**Original Combination:** *Lycaena phlaeas arctodon*  
**Type Locality:** "E side Beartooth Pass, Custer NF, Carbon Co., Mont., 10,300'" [Montana]  
**Types:** Holotype in MGCL.
  - e. *Lycaena phlaeas alpestris* J. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (52): 662, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Lycaena phlaeas alpestris*  
**Type Locality:** "California: Mono County; north slope of Mt. Dana...11,200-11,800"  
**Types:** Holotype in LACM.  
The proposal of this name resulted from the determination that *hypophlaeas* represents the widespread eastern North American taxon.
402. *Lycaena cupreus* (W. H. Edwards, 1870)
- a. *Lycaena cupreus lapidicola* J. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (52): 663-664, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Lycaena cuprea lapidicola*  
**Type Locality:** "California: Mono County; Tioga Pass"  
**Types:** Holotype in LACM.  
= *♀*"*maculinita*" (Gunder, 1926)  
Entomol. News 37(1): 8, no. 11, pl. 1, fig. 11 ♀ D ("Holotype").  
**Original Combination:** *Heodes cupreus* ab. ♀ *maculinita*  
**Type Locality:** "Mammoth, Mono County, California"  
**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 52, fig. 16 ♀ D.
  - b. *Lycaena cupreus cupreus* (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(1): 10, 20-21, no. 15; figured by W. H. Edwards (1875), Butts. N. Am. 2(2): pl. *Chrysophanus* 1, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, 7 ♀ V.  
**Original Combination:** *Chrysophanus Cupreus*  
**Type Locality:** "Oregon"; suggested to be "mountains in the south central part of Oregon" by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 175; defined as "Crane Creek, 3 miles south of Lakeview, Lake County Oregon" by J. Emmel and Pratt (1998), Syst. W. N. Am. Butts. (52): 663.  
**Types:** Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 176, fig. 6 ♂ D&V; paralectotype figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 65, fig. 40 ♀ D.  
Species-genus gender conformation is *cuprea*.  
= *artemisia* Scott, 1981  
Papilio (n.s.) 1: 6-7.  
**Original Combination:** *Lycaena cupreus artemisia*  
**Type Locality:** "The Potholes, Teton Co., Wyo." [Wyoming]  
**Types:** Holotype in LACM.  
This synonymy was implied by J. Emmel and Pratt (1998), Syst. W. N. Am. Butts. (52): 663, and discussed by A. Warren (2005), Butts. Ore.: 98.
  - c. *Lycaena cupreus snowi* (W. H. Edwards, [1881])  
Trans. Kansas Acad. Sci. 7: 69-70.  
**Original Combination:** *C[hrysophanus]*. *Snowi*  
**Type Locality:** "above timber line on Gray's Peak, Colorado" [Summit and Clear Creek counties]  
**Types:** Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 178, fig. 7 ♂ D&V.  
= *henryae* (Cadbury, 1937)  
Proc. Acad. Nat. Sci. Philad. 89: 409-410, pl. 16, fig. 9 ♀ D.  
**Original Combination:** *Chrysophanus snowi henryae* new race  
**Type Locality:** "Caribou Pass, alt. 5200 ft." [British Columbia]  
**Types:** Syntype (#7779) in ANSP.  
Layberry *et al.* (1998), Butts. Can.: 121, considered this name synonymous with *snowi*, but C. Guppy and J. Shepard (2001), Butts. B. C.: 190, recognized it as a subspecies-level taxon.

= *Lycaena mcdunnoughi* Gunder, 1927

Can. Entomol. 59(12): 284, no. 12, pl. A, fig. 12 ♀ D ("Holotype").

**Original Combination:** *Lycaena (Heodes) snowi* tr. f. *mcdunnoughi*

**Type Locality:** "Laggan, Alta., Can." [Alberta]

**Types:** "Holotype" in CNC.

This was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. (1): 61; an unjustified emendation.

#### Subgenus *Tharsalea* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 125, no. 29. Type-species: *Polyommatus arota* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 293-294, no. 27, by original designation.

#### 403. *Lycaena arota* (Boisduval, 1852)

##### a. *Lycaena arota arota* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 293-294, no. 27; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1933 ♂ D&V, 1934 ♀ D&V.

**Original Combination:** *Polyommatus arota*

**Type Locality:** "Montagnes de la Juba"; suggested to be "Sierra Nevada at lower elevations, in the old mining region" by Tilden (1955), Bull. South. Calif. Acad. Sci. 54(2): 68; defined as "Highway 70 at Soda Creek, E. Branch of N. Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13, figs. 45 ♂ D, 46 ♂ V.

##### b. *Lycaena arota virginienensis* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 21, no. 17.

**Original Combination:** *Chrysophanus Virginienensis*

**Type Locality:** "Virginia City, Nevada" [Storey County]

**Types:** Neotype (#7015) in AMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 164, fig. 1 ♂ D&V.

##### c. *Lycaena arota nubila* (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 34; figured by J. A. Comstock (1927), Butts. Calif.: pl. 51, fig. 2 ♂ D.

**Original Combination:** *Tharsalea arota* r[ace]. *nubila*

**Type Locality:** "Griffith Park, Los Angeles, California" [Los Angeles County]

**Types:** Holotype in LACM.

##### d. *Lycaena arota schellbachi* Tilden, 1955

Bull. South. Calif. Acad. Sci. 54(2): 72-74, pl. 24, fig. 4 ♂ V (holotype).

**Original Combination:** *Lycaena (Tharsalea) arota schellbachi*

**Type Locality:** "North Rim, Grand Canyon National Park...Bright Angel Trail, Grand Canyon" [Coconino County, Arizona]

**Types:** Holotype in USNM.

#### Subgenus *Hermelycaena* L. Miller & F. Brown, 1979

Bull. Allyn Mus. (51): 22. Type-species: *Chrysophanus hermes* W. H. Edwards, 1870, Trans. Am. Entomol. Soc. 3(1): 21, no. 16, by original designation.

#### 404. *Lycaena hermes* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 21, no. 16.

**Original Combination:** *Chrysophanus Hermes*

**Type Locality:** "California"; defined as "vicinity of San Diego, San Diego Co., California" by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 165; neotype from "S. Diego."

**Types:** Neotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 166, fig. 2 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 50 ♂ D.

= *del sud* (W. G. Wright, 1905) (emended)

Butts. W. Coast: 62, no. 347; 215, no. 347, pl. 28, figs. 347, 347b ♂ D&V (holotype).

**Original Combination:** [*Chrysophanus*] *Del Sud*; *Chrysophanus Del-Sud* n. s.

**Type Locality:** "San Diego County, California" "San Diego, Cal."

**Types:** Holotype (#4317) in CAS.

#### Subgenus *Chalceria* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 125, no. 30. Type-species: *Chrysophanus rubidus* Behr, 1866, Proc. Entomol. Soc. Philad. 6(2): 208, by original designation. Pratt *et al.* (1993), J. Res. Lepid. 30(3/4): 175-195, discussed this synonymy, but did not establish priority of *Chalceria* over *Gaeides*. C. Guppy and J. Shepard (2001), Butts. B. C.: 188, were apparently the first revisers.

= *Gaeides* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 126, no. 31. Type-species: *Chrysophanus dione* Scudder, 1868, Proc. Boston Soc. Nat. Hist. 11: 401, by original designation.

#### 405. *Lycaena dione* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.



**Original Combination:** *Chrysophanus Dione*

**Type Locality:** "Iowa"; defined as "Denison and New Jefferson, Iowa" by Scudder [1870], Trans. Chicago Acad. Sci. 1(2): 330. [Denison, Crawford County; Jefferson, Greene County]

**Types:** Syntypes probably in MCZ.

Layberry *et al.* (1998), Butts. Can.: 121-122, and Opler (1999), Field Guide W. Butts.: 189-190, treated *dione* as a species-level taxon.

=  $\S$ "gibboni" Gunder, 1927

Can. Entomol. 59(12): 284, no. 13, pl. A, fig. 13  $\sigma$  V ("Holotype").

**Original Combination:** *Lycaena (Dione) dione* tr. f. *gibboni*

**Type Locality:** "Miniota, Man., Can." [Manitoba]

**Types:** "Holotype" in CNC.

406. *Lycaena editha* (Mead, 1878)

a. *Lycaena editha editha* (Mead, 1878)

Can. Entomol. 10(10): 198-199.

**Original Combination:** *Chrysophanus Editha*

**Type Locality:** "the borders of Lake Tahoe, near Carnelian Bay" [Placer County, California]

**Types:** Syntypes in FMNH; figured by W. Holland (1898), Butt. Book: pl. 28, figs. 26  $\sigma$  D, 27  $\varphi$  D.

=  $\S$ "vanduzeei" Gunder, 1927

Entomol. News 38(5): 133, no. 1, pl. 2, fig. 1  $\varphi$  D ("Holotype").

**Original Combination:** *Lycaena editha vanduzeei*  $\varphi$  nov. tr. form

**Type Locality:** "Deer Park, Placer County, California"

**Types:** "Holotype" in CAS.

b. *Lycaena editha pseudonexa* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 675-677, figs. 45  $\sigma$  D, 46  $\sigma$  V (holotype); 47  $\varphi$  D, 48  $\varphi$  V.

**Original Combination:** *Lycaena editha pseudonexa*

**Type Locality:** "California: Shasta County; Railroad Park, Dunsmuir"

**Types:** Holotype in LACM.

c. *Lycaena editha obscuramaculata* Austin, 1989

J. Res. Lepid. 27(3/4): 266.

**Original Combination:** *Lycaena editha obscuramaculata*

Proposed to replace *Lycaena editha nevadensis* Austin, 1984, preoccupied, with the same data (Code Article 60.3).

=  $\S$ "nevadensis" Austin, 1984

J. Res. Lepid. 23(1): 83, 85, figs. 1 top left  $\sigma$  D (holotype), top right  $\varphi$  D, 2 top left  $\sigma$  V (holotype), top right  $\varphi$  V.

**Original Combination:** *Lycaena editha nevadensis*

**Type Locality:** "Nevada: Elko County; Jarbidge Mountains, Jarbidge Canyon between Pine Creek and Gorge Gulch, 6600', T46N, R9E, S33...about 4 km south of the town of Jarbidge on the floor of a narrow, steep-sided canyon"

**Types:** Holotype in MGCL.

Preoccupied by *Lycaena nevadensis* Oberthür, 1896, Étud. Entomol. 20: pl. 4, fig. 54.

d. *Lycaena editha vurali* Koçak, 1984

Priamus 3(3): 95.

**Original Combination:** *Lycaena editha vurali*

Proposed to replace *Lycaena editha montana* W. D. Field, 1936, preoccupied, with the same data (Code Article 60.3).

=  $\S$ "montana" W. D. Field, 1936

Entomol. News 47(5): 122.

**Original Combination:** *Lycaena editha* new race *montana*

**Type Locality:** "Broadwater County, Montana"

**Types:** Holotype in USNM.

Preoccupied by *Lycaena semiargus montana* Meyer-Dur, 1851, Verz. Schmett. Schwiez. 1, Tagfalter: 60.

=  $\S$ "meadi" W. D. Field, 1936

J. Entomol. & Zool. 28(2): 25.

**Original Combination:** *Lycaena editha* race *montana* female f. *meadi*

**Type Locality:** "Teton Mts., Wyo." [Teton County, Wyoming]

**Types:** "Holotype" in USNM.

407. *Lycaena xanthoides* (Boisduval, 1852)

a. *Lycaena xanthoides nigromaculata* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 674, figs. 41  $\sigma$  D, 42 V  $\sigma$  V (holotype); 43  $\varphi$  D, 44  $\varphi$  V.

**Original Combination:** *Lycaena xanthoides nigromaculata*

**Type Locality:** "California: Colusa County; junction of Highway 45 and Highway 20, west of Meridian"

**Types:** Holotype in LACM.

b. *Lycaena xanthoides xanthoides* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 292-293, no. 26; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1931  $\sigma$  D&V, 1932  $\varphi$  D&V.

**Original Combination:** *Polyommatus xanthoides*

**Type Locality:** "Montagnes de la Californie"; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12, figs. 42  $\sigma$  D, 43  $\sigma$  V.

= *luctuosa* (F. Watson & W. Coimstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 453-454.

**Original Combination:** *Heodes xanthoides luctuosa*

**Type Locality:** "Tehachapi, California" [Kern County]

**Types:** Holotype in AMNH.

= *gunderi* Rudkin, 1933

Entomol. News 44(4): 97.

**Original Combination:** *Lycæna xanthoides* tr. f. *gunderi*

**Type Locality:** "Bouquet Canyon, Los Angeles Co., California"

**Types:** "Holotype" in CAS.

c. *Lycæna xanthoides obsolescens* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 672-673, figs. 37 ♂ D, 38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.

**Original Combination:** *Lycæna xanthoides obsolescens*

**Type Locality:** "California: Inyo County; Hunter Mountain east of Nelson Range; small stream and meadow 0.4 air miles southeast of peak 7107 on 1951 USGS Marble Canyon topographic quadrangle, 6800' elevation, Death Valley National Monument"

**Types:** Holotype in LACM.

408. *Lycæna gorgon* (Boisduval, 1852)

a. *Lycæna gorgon gorgon* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2) 10(2): 292, no. 25; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1929 ♂ D&V, 1930 ♀ D&V.

**Original Combination:** *Polyommatus gorgon*

**Type Locality:** "montagnes de la Californie"; defined as "Hwy. 70 at Bear Ranch Creek, vicinity of Cresta, North Fork Feather River Canyon, elevation 1500', Butte County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. (2): 12.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12, figs. 39 ♂ D, 40 ♂ V.

b. *Lycæna gorgon micropunctata* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 668-669, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

**Original Combination:** *Lycæna gorgon micropunctata*

**Type Locality:** "California: Mono County; Lower Rock Creek, 6200' elevation, 2.8 road miles SE of U. S. Highway 395"

**Types:** Holotype in LACM.

c. *Lycæna gorgon jacquelineae* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 666-667, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

**Original Combination:** *Lycæna gorgon jacquelineae*

**Type Locality:** "California: Modoc County; Pine Creek Canyon, 5500' elevation, County Road 2, 3 road miles east of New Pine Creek (town), Warner Mountains"

**Types:** Holotype in LACM.

d. *Lycæna gorgon dorothea* J. Emmel & Pratt, 1998

Syst. W. N. Am. Butts. (52): 668, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Lycæna gorgon dorothea*

**Type Locality:** "Oregon: Josephine County; Illinois River Road, 3 miles west of Selma, Siskiyou National Forest, 1,350' elevation"

**Types:** Holotype in MGCL.

409. *Lycæna rubidus* (Behr, 1866)

a. *Lycæna rubidus monachensis* K. Johnson & Balogh, 1977

Bull. Allyn Mus. (43): 38-40, fig. 29 ♂ D&V (holotype) ♀ D&V, fig. 30A-F ♂ genitalia.

**Original Combination:** *Lycæna (Tharsalea) rubidus monachensis*

**Type Locality:** "Monache Meadows, Tulare County, California"

**Types:** Holotype in MGCL.

b. *Lycæna rubidus incana* Austin, 1998

Syst. W. N. Am. Butts. (45): 539-540, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Lycæna rubida incana*

**Type Locality:** "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2621 m, T1S R33E S10 on USGS Davis Mountain, Nev.-Calif. 15' quadrangle"

**Types:** Holotype in MGCL.

c. *Lycæna rubidus rubidus* (Behr, 1866)

Proc. Entomol. Soc. Philad. 6(2): 208.

**Original Combination:** *Chrysophanus rubidus*

**Type Locality:** "interior of Oregon"; neotype from "Oreg."; defined as "Horse Prairie, 5 miles east of Lakeview, Lake County, Oregon" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 102.

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by K. Johnson and Balogh (1977), Bull. Allyn Mus. (43): 20, figs. 16 ♂ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): figs. 49 ♂ D, 50 ♂ V.

Species-genus gender conformation is *rubida*.

d. *Lycæna rubidus duofascies* K. Johnson & Balogh, 1977

Bull. Allyn Mus. (43): 21-25, fig. 19 ♂ D&V (holotype) ♀ D&V, fig. 20A-F ♂ genitalia.

**Original Combination:** *Lycæna (Tharsalea) rubidus duofascies*

**Type Locality:** "Bogus Basin, nr. Boise, Boise County, Idaho, 6000'"

**Types:** Holotype in MGCL.

A. Warren (2005), Butts. Ore.: 103, considered this taxon a synonym of *L. r. rubidus*.

- e. ***Lycaena rubidus perkinsorum*** K. Johnson & Balogh, 1977  
Bull. Allyn Mus. (43): 25-28, fig. 21 ♂ D&V (holotype) ♀ D&V, fig. 22A-F ♂ genitalia.  
**Original Combination:** *Lycaena (Tharsalea) rubidus perkinsorum*  
**Type Locality:** "1 mi. E. the [sic] Dalles, Wasco County, Oregon, 150'" [The Dalles]  
**Types:** Holotype in MGCL.
  - f. ***Lycaena rubidus sirius*** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 266, 270, no. 6; figured by W. H. Edwards (1875), Butts. N. Am. 2(2): pl. Chrysophanus 1, figs. 8 ♂ D, 9 ♂ V, 10 ♀ D.  
**Original Combination:** *Chrysophanus Sirius*  
**Type Locality:** "Colorado"; suggested to be "Twin Lakes" and "Mt. Lincoln, South Park and Middle Park" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161-162; defined as "vicinity of Twin Lakes, Lake Co., Colorado" by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 166-167.  
**Types:** Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 168-169, fig. ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 29, fig. 3 ♂ D.
  - g. ***Lycaena rubidus longi*** K. Johnson & Balogh, 1977  
Bull. Allyn Mus. (43): 28-32, fig. 23 ♂ D&V (holotype) ♀ D&V, fig. 24A-C ♂ genitalia.  
**Original Combination:** *Lycaena (Tharsalea) rubidus longi*  
**Type Locality:** "Cañon Region north of Harrison, Sioux County, Nebraska"  
**Types:** Holotype in MGCL.
  - h. ***Lycaena rubidus ferrisi*** K. Johnson & Balogh, 1977  
Bull. Allyn Mus. (43): 40-42, fig. 31 ♂ D&V (holotype) ♀ D&V, fig. 32A-F ♂ genitalia.  
**Original Combination:** *Lycaena (Tharsalea) ferrisi*  
**Type Locality:** "Apache Ditch Camp (13 miles east of McNary), Apache County, Arizona"  
**Types:** Holotype in MGCL.  
Pratt *et al.* (1993), J. Res. Lepid. 30(3/4): 190, treated this taxon as a subspecies of *L. rubidus*; its status needs further elaboration.
410. ***Lycaena heteronea*** Boisduval, 1852
- a. ***Lycaena heteronea heteronea*** Boisduval, 1852  
Annls. Soc. Entomol. Fr. (2)10(2): 298, no. 35; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1946 ♂ D&V, 1947 ♀ D&V.  
**Original Combination:** *Lycaena heteronea*  
**Type Locality:** "montagnes du nord"; defined as "bluff between Cavallo Point and Yellow Bluff, ca. 2 air miles SSE of Sausalito, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15, figs. 72 ♂ D, 73 ♂ V.
  - b. ***Lycaena heteronea northi*** J. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (52): 671, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.  
**Original Combination:** *Lycaena heteronea northi*  
**Type Locality:** "California: Humboldt County; North Trinity Mountain; 1/2 mile up trail to Water Dog Lakes, 5,800' elevation"  
**Types:** Holotype in LACM.
  - c. ***Lycaena heteronea submaculata*** J. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (52): 670-671, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.  
**Original Combination:** *Lycaena heteronea submaculata*  
**Type Locality:** "California: Plumas County; Warner Valley, at south boundary of Lassen National Park"  
**Types:** Holotype in LACM.
  - d. ***Lycaena heteronea clara*** Hy. Edwards, 1877  
Pac. Coast Lepid. (26): [1].  
**Original Combination:** *Lycaena clara*  
**Type Locality:** "Tehachapi Pass, S. P. R. R., Kern Co...Colorado and the mountains of California"; all syntypes are from "Tehachapi Pass, California."  
**Types:** Syntypes in MGCL and AMNH; one figured by W. Holland (1898), Butt. Book: pl. 30, fig. 26 ♀ D.
  - e. ***Lycaena heteronea rutila*** Austin, 1998  
Syst. W. N. Am. Butts. (45): 541, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Lycaena heteronea rutila*  
**Type Locality:** "Nevada: Lincoln County; Wilson Creek Range, Wilson Peak Road, 2470 m, T5N R68E S21, 28 on USGS Trail Canyon, Nev. 7.5' quadrangle"  
**Types:** Holotype in MGCL.
  - f. ***Lycaena heteronea rava*** Austin, 1998  
Syst. W. N. Am. Butts. (45): 540, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Lycaena heteronea rava*  
**Type Locality:** "Nevada: Elko County; Ruby Mountains, Lamoille Canyon, end of Lamoille Canyon Road, 2700 m, T32N R58E S36 on USGS Lamoille, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
  - g. ***Lycaena heteronea klotsi*** W. D. Field, 1936  
Entomol. News 47(5): 123.  
**Original Combination:** *Lycaena heteronea* new race *klotsi*



**Type Locality:** "Broadwater County, Montana"

**Types:** Holotype in USNM.

**h. *Lycaena heteronea gravenotata* Klots, 1930**

Bull. Brooklyn Entomol. Soc. 25(3): 163-165, figs. 1 ♂ V (holotype); 2 ♀ V, 3 ♂ V, 4 ♀ V.

**Original Combination:** *L[ycæna]. heteronea gravenotata*

**Type Locality:** "Plainview, Jefferson County, Colo. Alt. 6783 ft." [Colorado]

**Types:** Holotype in AMNH.

= ‡"coloradensis" (Gunder, 1925)

Entomol. News 36(7): 194, no. 1, pl. 5, fig. 1 ♂ V ("Holotype").

**Original Combination:** *Heodes heteronia* [sic!] ab. ♂ *coloradensis*

**Type Locality:** "Plain View [sic], Colorado" [Plainview, Jefferson County]

**Types:** "Holotype" in MGCL.

Subgenus **Epidemia** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 127, no. 33. Type-species: *Polyommatus epixanthe* Boisduval & Le Conte, [1835], Hist. Lépid. Amér. sept. (13): pl. 38, figs. 4, 5; (14): 127, by original designation.

= *Hylolycaena* L. Miller & F. Brown, 1979

Bull. Allyn Mus. (51): 15-17. Type-species: *Papilio hyllus* Cramer, 1775, Uittl. Kapellen 1(4): 67-68, pl. 43, figs. B, C; (8): 153 (index), by original designation. Pratt and D. Wright (2003), Pan-Pac. Entomol. 78(4): 226, placed this taxon here.

= *Hellolycaena* Koçak, 1983

Priamus 3(1): 3-5. Type-species: *Polyommatus thoe* Guérin-Ménéville, [1832], Icon. Règne Anim. Cuvier: pl. Ins. 81, figs. 4, 4a, 4b (= *Papilio hyllus* Cramer, 1775, Uittl. Kapellen 1(4): 67-68, pl. 43, figs. B, C; (8): 153 (index)), by original designation. Koçak (1983), thought that *hyllus* was a species-level taxon from the Old World, distinct from *thoe*; in this he disagreed with F. Brown and W. D. Field (1970), J. N. Y. Entomol. Soc. 78(4): 175-184.

**411. *Lycaena hyllus* (Cramer, 1775)**

Uittl. Kapellen 1(4): 67-68, pl. 43, figs. B ♂ D, C ♂ V; (8): 153 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Ruralis Hyllus*

**Type Locality:** "Smirna" "Smirne" [Smyrna, Turkey]

**Types:** Location of type(s) not known, probably lost.

This name is in prevailing use even though it is arguably a *nomen dubium*. It was treated as a senior synonym of the Old World *Thersamonia thersamon* (Esper, 1784) by Koçak (1983), Priamus 3(3): 3-5.

= *thoe* (Guérin-Ménéville, [1832])

Icon. Règne Anim. Cuvier 2(18): pl. Ins. 81, figs. 4 ♀ D, 4a ♀ V, 4b [1832]; 3: 490 [1844].

**Original Combination:** *Polyommatus Thoe*

**Type Locality:** "l'Amerique du Nord"

**Types:** Location of type(s) not known, possibly in MNHP.

F. Brown and W. D. Field (1970), J. N. Y. Entomol. Soc. 78(4): 175-184, successfully attempted to supplant *Polyommatus thoe* with *Papilio hyllus* as a senior synonym. Even though the rules current at the time were violated by replacing a long recognized name with an overlooked senior synonym, their action has become widely accepted. Stability seems best served by maintaining the name *hyllus*.

= ‡"wormsbacheri" Gunder, 1927

Bull. South. Calif. Acad. Sci. 26(2): 53.

**Original Combination:** *Lycaena thoe* nov. tr. f. *wormsbacheri*

**Type Locality:** Not known, but possibly Cleveland, Ohio, where Wormsbach lived. [Cuyahoga County]

**Types:** "Holotype" in USNM.

= ‡"wyatti" Gunder, 1927

Can. Entomol. 59(12): 285, no. 16, pl. A, fig. 16 ♂ D, 16b ♂ V ("Holotype"), 16d ♀ D.

**Original Combination:** *Lycaena (Heodes) thoe* tr. f. *wyatti*

**Type Locality:** "Colorado?"

**Types:** "Holotype" in FMNH.

**412. *Lycaena epixanthe* (Boisduval & Le Conte, [1835])**

**a. *Lycaena epixanthe epixanthe* (Boisduval & Le Conte, [1835])**

Hist. Lépid. Amér. sept. (13): pl. 38, figs. 4 ♀ D, 5 ♂ V; (15): 127.

**Original Combination:** *P[olyommatus] Epixanthe*

**Type Locality:** "aux environs de New-Harmony- Indiana"; suggested to be "somewhere in New Jersey or the environs of Philadelphia" by Rawson (1948), J. N. Y. Entomol. Soc. 56(1): 58.

**Types:** Lectotype in USNM, designated by Rawson (1948), *ibid*.

**b. *Lycaena epixanthe phaedrus* (G. Hall, 1924)**

J. N. Y. Entomol. Soc. 32(2): 111.

**Original Combination:** *Heodes epixanthe phaedrus*

**Type Locality:** "Dublin Shore, Lunenburg Co., N. S." [Nova Scotia]

**Types:** Holotype in AMNH.

Genus-species gender conformation is *phaedra*.

= *amicetus* (W. Holland, 1931)

Butt. Book (rev. ed.): 250, no. 15, pl. 28, fig. 28 ♂ D (lectotype), pl. 64, figs. 41 ♂ D, 42 ♀ V.

**Original Combination:** *Chrysophanus amictus*

**Type Locality:** "Newfoundland"; defined as "the Avalon Peninsula, S. E. Newfoundland, in the general vicinity of St. John" by F. Brown (1968), J. N. Y. Entomol. Soc. 76(1): 25. [Newfoundland and Labrador]

**Types:** Lectotype in CMNH, designated by Clench (1968), in: F. Brown, J. N. Y. Entomol. Soc. 76(1): 25.

This name was listed (as *Polyommatus amictus*) without a description or indication by E. Doubleday (1847), List Spec. Lepid. Brit. Mus. 2: 55, Scudder (1876), Bull. Buffalo Soc. Nat. Sci. 3: 128, and Scudder (1889), Butts. E. U. S. & Can. 2(7): 985 (as a manuscript name credited to Boisduval); *nomina nuda*.

- c. *Lycaena epixanthe michiganensis* Rawson, 1948

J. N. Y. Entomol. Soc. 56(1): 59-60.

**Original Combination:** *Lycaena epixanthe michiganensis*

**Type Locality:** "Proud Lake, Oakland County, Michigan"

**Types:** Holotype in USNM.

413. *Lycaena dorcas* W. Kirby, 1837

There is no consensus on relationships between taxa herein placed under *L. dorcas* and *L. helloides* (e.g. Ferris (1977), Bull. Allyn Mus. (45): 1-42, Scott (1979), J. Res. Lepid. 17(1): 40-50, (2006), Papilio (n.s.) 12: 44-45). Much further study is required before a stable nomenclature can be attained.

- a. *Lycaena dorcas claytoni* A. E. Brower, 1940

Bull. Brooklyn Entomol. Soc. 35(4): 138.

**Original Combination:** *Lycaena dorcas claytoni*

**Type Locality:** "Springfield, Maine" [Penobscot County]

**Types:** Holotype in USNM.

- b. *Lycaena dorcas michuron* Scott, 2006

Papilio (n.s.) 12: 42, pl. 4, 3rd row right center ♀ D&V (holotype).

**Original Combination:** *Lycaena dorcas michuron*

**Type Locality:** "Fenton Road, N of Hwy. 59, Livingstone Co. Mich." [Michigan]

**Types:** Holotype in BMNH.

- c. *Lycaena dorcas dorcas* W. Kirby, 1837

In: J. Richardson, Fauna Bor.-Am. [4]: 299, no. 1, pl. 4, fig. 1 ♀ D.

**Original Combination:** *Lycaena Dorcas*

**Type Locality:** "Lat. 54°"; suggested to be "Cumberland-house" by W. Comstock and Huntington (1959), J. N. Y. Entomol. Soc. 67(3/4): 210; neotype from "The Pas, Manitoba."

**Types:** Neotype in CNC, designated by Ferris (1977), Bull. Allyn Mus. (45): 23, fig. 59 ♀ D&V.

‡*anthelle* (E. Doubleday, 1847)

List Spec. Lepid. Brit. Mus. 2: 55.

**Original Combination:** *Polyommatus Anthelle*

**Type Locality:** "Martin's Falls, Albany River, Hudson's Bay" [Martin Falls, Ontario]

**Types:** "Syntypes" in BMNH.

W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(3): 95, noted that one of the "types" was in the USNM. Klotz (1936), Bull. Brooklyn Entomol. Soc. 31(4):165, stated that this is a manuscript name for *dorcas* and a *nomen nudum*.

- d. *Lycaena dorcas arcticus* (Ferris, 1977)

Bull. Allyn Mus. (45): 33-35, figs. 86 ♂ D&V (holotype), 87 ♀ D&V.

**Original Combination:** *Epidemia dorcas arcticus*

**Type Locality:** "Mayo Lake Road, Yukon Territory, Canada"

**Types:** Holotype in MGCL.

Genus-species gender conformation is *arctica*.

- e. *Lycaena dorcas florus* (W. H. Edwards, [1884])

Can. Entomol. 15(11): 210-211.

**Original Combination:** *Chrysophanus Florus*

**Type Locality:** "Red Deer River, B. Am."; lectotype from "Garnett's Ranch, near Lundbreck, mouth of Crowsnest [*sic*] Pass, Alberta" [Crow's Nest Pass]

**Types:** Lectotype (#G 2960) in CNC, designated by Bird and Ferris (1979), Can. Entomol. 111(5): 637-639, figs. 3 ♂ D, 4 ♂ V; figured by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv.: figs. 1 upper, ♂ D, 2 upper ♂ V. A previous lectotype designation by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 173-174, fig. 5 ♂ D&V, was in error.

= ‡*hulbirti* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 25-26.

**Original Combination:** *Lycaena dorcas* race *florus* female f. *hulbirti*

**Type Locality:** "Broadwater Co., Montana"

**Types:** "Holotype" USNM.

= ‡*sternitzkyi* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 26.

**Original Combination:** *Lycaena dorcas* race *florus* female f. *sternitzkyi*

**Type Locality:** "Broadwater Co., Montana"

**Types:** "Holotype" USNM.

- f. *Lycaena dorcas megaloceras* (Ferris, 1977)

Bull. Allyn Mus. (45): 31-33, figs. 84 ♂ D&V (holotype), 85 ♀ D&V.

**Original Combination:** *Epidemia dorcas megaloceras*

- Type Locality:** “5-Spring Creek, 9100’ (2775m), Big Horn Co., Wyoming”  
**Types:** Holotype in MGCL.
- g. ***Lycaena dorcas castro*** (Reakirt, 1866)  
 Proc. Entomol. Soc. Philad. 6(1): 148-149.  
**Original Combination:** *Polyommatus Castro*  
**Type Locality:** “Rocky Mountains, Colorado Territory”  
**Types:** Lectotype in FMNH, designated by Ferris (1977), Bull. Allyn Mus. (45): 25, fig. 68 ♂ D&V.  
 = ♀ “williamsi” Gunder, 1927  
 Can. Entomol. 59(12): 285, no. 14, pl. A, fig. 14 ♂ D, 14b ♂ D (“Holotype”), 14d ♀ D.  
**Original Combination:** *Lycaena (Dione) helloides* tr. f. *williamsi*  
**Type Locality:** “Hall’s [sic!] Valley, Park Co., Colo.” [Hall Valley, Colorado]  
**Types:** “Holotype” (#7178) in ANSP.
414. ***Lycaena dospassosi*** McDunnough, 1940  
 Can. Entomol. 72(7): 130-131.  
**Original Combination:** *Lycaena dorcas* v. *dosPassosi*  
**Type Locality:** “Bathurst, N. B.” [New Brunswick]  
**Types:** Holotype (#5092) in CNC.  
 Layberry *et al.* (1998), Butts. Can.: 126, elevated this taxon to the species-level.
415. ***Lycaena helloides*** (Boisduval, 1852)  
 Annls. Soc. Entomol. Fr. (2)10: 291, no. 24; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, figs. 1927 ♂ D&V, 1928 ♀ D&V.  
**Original Combination:** *Polyommatus helloides*  
**Type Locality:** “aux environs de San Francisco”; defined as “San Francisco, San Francisco County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 12, 36 ♂, 37 ♂ V; figured by Ferris (1977), Bull. Allyn Mus. (45): fig. 50 ♂ D&V (as holotype).  
 = ♀ “sternitzkyi” Gunder, 1927  
 Can. Entomol. 59(12): 285, no. 15, pl. A, fig. 15 ♂ D (“Holotype”).  
**Original Combination:** *Lycaena (Heodes) thoe* tr. f. *sternitzkyi*  
**Type Locality:** “Petaluma, Calif.” [Sonoma County, California]  
**Types:** “Holotype” in AMNH.
416. ***Lycaena nivalis*** (Boisduval, 1869)
- a. ***Lycaena nivalis nivalis*** (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 44-45, no. 19; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1955 ♂ D&V, 1956 ♀ D&V.  
**Original Combination:** *Polyommatus nivalis*  
**Type Locality:** “de la région des neiges”; suggested to be “in the Sierras (Sierra Nevada, Placer or El Dorado County)” by dos Passos (1938), Can. Entomol. 70(3): 45; defined as “Gold Lake, Sierra County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26, figs. 183 ♂ D, 184 ♂ V.  
 = *ianthe* (W. H. Edwards, 1871)  
 Trans. Am. Entomol. Soc. 3(3/4): 205, 211-212, no. 12.  
**Original Combination:** *Chrysophanus ianthe*  
**Type Locality:** “Nevada”; suggested to be “near Virginia City” by dos Passos (1938), Can. Entomol. 70(3): 45; further defined as “Lake Tahoe, Nevada” by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 169.  
**Types:** Lectotype in CMNH, designated by F. Brown (1969), Trans. Am. Entomol. Soc. 95(1): 171, fig. 4 ♀ D&V.
- b. ***Lycaena nivalis bichroma*** J. Emmel & Pratt, 1998  
 Syst. W. N. Am. Butts. (52): 664-665, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Lycaena nivalis bichroma*  
**Type Locality:** “California: Siskiyou County; summit of Mt. Eddy”  
**Types:** Holotype in LACM.
- c. ***Lycaena nivalis warnermontana*** J. Emmel & Pratt, 1998  
 Syst. W. N. Am. Butts. (52): 665-666, figs. 13 ♂ D, 14 ♂ D (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Lycaena nivalis warnermontana*  
**Type Locality:** “California: Modoc County; Dismal Swamp, Warner Mountains”  
**Types:** Holotype in LACM.
- d. ***Lycaena nivalis praetexta*** Austin, 1998  
 Syst. W. N. Am. Butts. (45): 541-542, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Lycaena nivalis praetexta*  
**Type Locality:** “Nevada: Elko County; Owyhee River Valley, Wildhorse Creek, Wildhorse Crossing Campground, 1950 m, T44N R54E (unsectioned) on USGS Wild Horse, Nev. 15’ quadrangle”  
**Types:** Holotype in MGCL.
- e. ***Lycaena nivalis browni*** dos Passos, 1938  
 Can. Entomol. 70(3): 45, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Lycaena nivalis browni*  
**Type Locality:** “Snowslide Canyon, eight miles from Montpelier, Idaho” [Bear Lake County]  
**Types:** Holotype in AMNH.



417. **Lycaena mariposa** (Reakirt, 1866)
- a. **Lycaena mariposa mariposa** (Reakirt, 1866)  
 Proc. Entomol. Soc. Philad. 6(1): 149-150, note.  
**Original Combination:** *Polyommatus Mariposa*  
**Type Locality:** "California"  
**Types:** Syntypes in FMNH; figured by Strecker (1874), Lepid. Rhop. Het. (10): pl. 10, figs. 25 ♂ D&V, 26 ♀ D; at least one syntype in ANSP, another (#16012) in MCZ.  
 = *zeroe* (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 45, no. 20; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1957 ♂ D&V, 1958 ♀ D&V.  
**Original Combination:** *Polyommatus zeroe*  
**Type Locality:** "les hautes montagnes des frontières de l'Utah"; suggested to be "eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26, figs. 186 ♂ D, 187 ♂ V.
- b. **Lycaena mariposa charlottensis** (W. Holland, 1930)  
 Ann. Carnegie Mus. 20(1): 6-7; figured by W. Holland (1931), Butt. Book (rev. ed.): fig. 47 ♂ D, 48 ♂ V, 49 ♀ D.  
**Original Combination:** *Chrysophanus charlottensis*  
**Type Locality:** "Queen Charlotte Island" [British Columbia]  
**Types:** Holotype in CMNH.
- c. **Lycaena mariposa penroseae** W. D. Field, 1938  
 Pan-Pac. Entomol. 14(3): 142-143.  
**Original Combination:** *Lycaena mariposa penroseae*  
**Type Locality:** "Lake Eleanor, Yellowstone National Park, elevation 8500 ft." [Wyoming]  
**Types:** Holotype in MGCL.

Subfamily **Theclinae** Swainson, 1831 (1820)

Zool. Illustr. (2)2(18): pl. 85, unnumbered text (as "Theclanae"). Type-genus: *Thecla* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 286. The family-group name Theclinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Zephyrinae Billberg, 1820, Enum. Ins. Mus. Billb.: 80, no. 2, is senior (Code Article 35.5).

Tribe **Theclini** Swainson, 1831 (1820)

Genus **Hypaurotis** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 112-113, no. 16. Type-species: *Thecla crysalus* W. H. Edwards, 1873, Trans. Am. Entomol. Soc. 4(4): 344-345, by original designation.

418. **Hypaurotis crysalus** (W. H. Edwards, 1873)
- a. **Hypaurotis crysalus crysalus** (W. H. Edwards, 1873)  
 Trans. Am. Entomol. Soc. 4(4): 344-345.  
**Original Combination:** *Thecla Crysalus*  
**Type Locality:** "Lake Pass"; corrected to "Palmer Lake, El Paso Co., Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 22-23.  
**Types:** Lectotype (#15726) in MCZ, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 23, fig. 1 ♂ D&V.
- b. **Hypaurotis crysalus intermedia** Austin, 1998  
 Syst. W. N. Am. Butts. (45): 542-543, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.  
**Original Combination:** *Hypaurotis crysalus intermedia*  
**Type Locality:** "Nevada: Lincoln County; Highland Range, Highland Spring, 2073 m, T1N R66E S26 on USGS Highland Peak, Nev. 7.5' quadrangle"  
**Types:** Holotype in MGCL.
- c. **Hypaurotis crysalus citima** (Hy. Edwards, 1881)  
 Papilio 1(4): 53.  
**Original Combination:** *Thecla citima* n. var [of *crysalus*]  
**Type Locality:** "Mt. Nebo, Utah...S. W. Colorado"; holotype from Mt. Nebo. [Juab-Utah counties, Utah]  
**Types:** Syntype in AMNH.

Genus **Habrodais** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 113, no. 17. Type-species: *Thecla grunus* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 289, no. 19, by original designation.

419. **Habrodais grunus** (Boisduval, 1852)
- a. **Habrodais grunus lorquini** W. D. Field, 1938  
 Bull. South. Calif. Acad. Sci. 37(1): 27-28.  
**Original Combination:** *Habrodais grunus lorquini*

**Type Locality:** "Mt. Diablo, Contra Costa Co., California"

**Types:** Holotype in MGCL.

= ♀ "chloris" W. D. Field, 1938

Bull. South. Calif. Acad. Sci. 37(1): 28.

**Original Combination:** *Habrodais grunus lorquini* f. *chloris*

**Type Locality:** "Mt. Diablo, Contra Costa Co., California"

**Types:** "Holotype" in MGCL.

**b. *Habrodais grunus grunus* (Boisduval, 1852)**

Annls. Soc. Entomol. Fr. (2)10(2): 289, no. 19; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1923 ♂ D&V. This figure does not represent the type, as determined by W. D. Field (1938), Bull. South. Calif. Acad. Sci. 37(1): 24-25.

**Original Combination:** *Thecla grunus*

**Type Locality:** "Californie" implied from the title of the paper; suggested to be "Sierra-Nevada Mountains" by W. D. Field (1938), Bull. South. Calif. Acad. Sci. 37(1): 24-25; neotype from "Hwy. 70 at Chambers Creek, North Fork Feather River Canyon, Plumas County, California."

**Types:** Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 10, figs. 21 ♂ D, 22 ♂ V.

**c. *Habrodais grunus herri* W. D. Field, 1938**

Bull. South. Calif. Acad. Sci. 37(1): 29.

**Original Combination:** *Habrodais grunus herri*

**Type Locality:** "McKenzie (Sister's) Pass, Oregon" [Lane-Deschutes counties]

**Types:** Syntypes in USNM.

**Tribe *Eumaeini* E. Doubleday, 1847**

List Spec. Lepid. Ins. Brit. Mus. 2: 20 (as "Eumaeidae"). Type-genus: *Eumaeus* Hübner, [1819], Verz. bekannt. Schmett. (5): 67. The synonymy of genera and species in this tribe has been derived from Smith *et al.* (1994), Butts. W. Ind. & Fla.: 107-125, Robbins (2004), *in*: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 118-137, and other recent works.

**Subtribe *Eumaeina* E. Doubleday, 1847**

**Genus *Eumaeus* Hübner, [1819]**

Verz. bekannt. Schmett. (5): 67. Type-species: *Rusticus minyas* Hübner, [1809], Samml. exot. Schmett. 1: pl. [97], figs. 1, 2, 3, 4, by monotypy.

= *Eumenia* Godart, [1824]

*In*: Ency. méth. 9(Ins.) (2): 826. Type-species: *Eumenia toxea* Godart, [1824], *in*: Ency. méth. 9(Ins.) (2): 826, no. 1, by monotypy.

= *Eumaea* Geyer, [1834]

*In*: Hübner, Samml. exot. Schmett. 3: pl. [18]. Type-species: *Eumaea debora* Geyer, [1834], *in*: Hübner, Samml. exot. Schmett. 3: pl. [18], figs. 1, 2, 3, 4 (= *Eumenia childrenae* G. Gray, 1832, Griffiths' Anim. Kingd. 15(2): 677, pl. 112, figs. 3, 3a, 3b; synonym), by monotypy.

= ♀ *Epula* Gistel, 1848

Naturgesch. Thierreichs höhe Sch.: ix. Type-species: *Eumenia toxea* Godart, [1824], *in*: Ency. méth. 9(Ins.) (2): 826, no. 1, as a replacement name. Proposed to replace *Eumenia* Godart, [1824], erroneously thought preoccupied. A junior objective synonym of *Eumenia*.

**420. *Eumaeus toxea* (Godart, [1824])**

Ency. méth. 9(Ins.) (2): 826, no. 1.

**Original Combination:** *Eumenia Toxea*

**Type Locality:** "l'intérieur de l'Amérique méridionale"; suggested to be "Guatemalan" by Lathy (1926), Ann. Mag. Nat. Hist. (9)17(97): 39.

**Types:** Syntype in MNHP; figured by Faynel and Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): fig. 1 ♀ D&V.

Goodson (1947), Entomol. 80(12)[1015]: 274, no. 2, diagnosed this taxon as distinct from *E. minyas* (Hübner, 1809), Samml. exot. Schmett. 1: pl. [97], figs. 1, 2, 3, 4. Robbins (1984), *in*: R. Kendall and McGuire, Bull. Allyn Mus. (86): 15, detailed several old, perhaps dubious, records of this taxon from southern Texas.

**421. *Eumaeus atala* (Poey, 1832)**

Cent. Lépid. Cuba (1): [7-9], [no. 3], pl. [3], figs. [1] ♂ D, [2] ♂ V, [3] ♀ D.

**Original Combination:** *Eumenia Atala*

**Type Locality:** "Havane" [Cuba]

**Types:** Syntype (#7771) in ANSP.

= *florida* Röber, 1926

Entomol. Mitt. 15(5/6): 373; cited [Draudt] (1916), *in*: Seitz, Grossschmett. Erde 5(246): pl. 146b, figs. [1] ♂ V, [2] ♂ D.

**Original Combination:** [*Eumaeus atala*] [form] *florida*

**Type Locality:** "Florida"; suggested to be "Miami, Dade Co." by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 98. [Miami-Dade County]

**Types:** Location of type(s) not known.

This taxon has been thought by some (*e.g.*, Calhoun (1997), Holarct. Lepid. 4(2): 45), to be only slightly distinct from *E. a. atala*, and was placed in synonymy by Smith *et al.* (1994), Butts. W. Ind. & Fla.: 107, and Robbins (2004), *in*: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 118.

= *grayi* W. Comstock & Huntington, 1943

Ann. N. Y. Acad. Sci. 45(2): 60.

**Original Combination:** *Eumaeus atala grayi*

**Type Locality:** "Florida...Miami" [Miami-Dade County]

**Types:** Holotype in AMNH.

#### Genus *Atlides* Hübner, [1819]

Verz. bekannt. Schmett. (5): 80. Type-species: *Papilio halesus* Cramer, 1777, Uitl. Kapellen 2(9): 3, pl. 98, figs. B, C; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 124, no. 147.

= *Riojana* d'Aberra & Bálint, 2001

Conc. Atlas Butts. World: 195. Type-species: *Thecla thargelia* Burmeister, 1878, Descr. phys. Rép. Argentine 5(Lépid.) (1): 230, Atl. pl. 8, fig. 9.

#### 422. *Atlides halesus* (Cramer, 1777)

##### a. *Atlides halesus halesus* (Cramer, 1777)

Uitl. Kapellen 2(9): 3, pl. 98, figs. B ♂ D, C ♂ V; (16): 149 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Rural[is]. Halesus*

**Type Locality:** "Virginien" "Virginie"

**Types:** Type(s) probably lost.

= *dolichos* Hübner, 1823

Zutr. Samml. exot. Schmett. 2: pl. [39], figs. 219 ♀ D, 220 ♀ V [1821]; 9, no. 110 (1823, name given).

**Original Combination:** *Atlides Dolichos*

**Type Locality:** "Georgien in Florida"

**Types:** Type(s) probably lost.

This name was proposed (as "*dolichus*") by Hübner [1819], Verz. bekannt. Schmett. (5): 80, no. 815; a *nomen nudum*.

= *juanita* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 435-436.

**Original Combination:** *Thecla Juanita*

**Type Locality:** "Pilatka, Florida" [now Palatka, Putnam County]

**Types:** Type(s) may be in MCZ.

##### b. *Atlides halesus corcorani* Clench, 1942

Entomol. News 53(8): 219.

**Original Combination:** *Atlides halesus corcorani* form *estesi*, new normal form

Clench adopted *Atlides halesus* tr. f. *corcorani* Gunder, 1934, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♂"corcorani" Gunder, 1934

Can. Entomol. 66(6): 131.

**Original Combination:** *Atlides halesus* tr. f. *corcorani*

**Type Locality:** "Riverside, Riverside County, Calif." [California]

**Types:** "Holotype" in AMNH.

= ♂estesi Clench, 1942

Entomol. News 53(8): 219-220.

**Original Combination:** *Atlides halesus corcorani* form *estesi*, new normal form

**Type Locality:** "Riverside, California" [Riverside County]

**Types:** "Holotype" (#25703) in MCZ.

#### Genus *Rekoa* Kaye, 1904

Trans. Entomol. Soc. Lond. (4)1904[52](2): 198. Type-species: *Papilio meton* Cramer, 1779, Uitl. Kapellen 3(17): 15, pl. 201, figs. D, E; (24): 175 (index), by original designation. The genus- and species-level synonymies for this genus follow Robbins (1991), Smithsonian Contrib. Zool. (498): 1-64.

= *Heterosmaitia* Clench, [1964]

J. Res. Lepid. 2(4): 248, 254. Type-species: *Thecla bourkei* Kaye, [1925], Trans. Entomol. Soc. Lond. (4)1924[72](3/4): 416-417, by original designation.

#### 423. *Rekoa palegon* (Cramer, 1780)

Uitl. Kapellen 3(24): 159, pl. 282, figs. C ♂ D, D ♂ V; (24): 176 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. rural[is]. Palegon*

**Type Locality:** "Sierra Leona op de Goudkust van Afrika" "Sierra Leona, sur la Côte d'or de l'Afrique" in error; suggested to be "Surinam" by Robbins (1991), Smithsonian Contrib. Zool. (498): 38.

**Types:** Type(s) probably lost.

= *myrtillus* (Stoll, 1781)

Uitl. Kapellen 4(32): 178, pl. 380, figs. B ♂ D, C ♂ V.

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Rural[is]. Myrtillus*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

= *juicha* (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 338-339, no. 44.



- Original Combination:** *Thecla juicha*  
**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]  
**Types:** Location of type(s) not known, probably lost.
- = *cyrriana* (Hewitson, 1874)  
 Entomol. Mon. Mag. 11(5): 105; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 78, figs. 627, 628 ♂ D&V.  
**Original Combination:** *Thecla Cyrriana*  
**Type Locality:** "Peru"; suggested to be "either Mazatlán, Sinaloa, or Acapulco, Guerrero" by Clench (1967), J. Lepid. Soc. 21(3): 183.  
**Types:** Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 39.
- = *ulia* (Dyar, 1913)  
 Proc. U. S. Nat. Mus. 45(2006): 637.  
**Original Combination:** *Thecla ulia*  
**Type Locality:** "Cantas, 2,000 feet" [Peru]  
**Types:** Holotype (#15623) in USNM.
424. **Rekoa marius** (Lucas, 1857)  
 In: Sagra, Hist. Cuba 7: 559-600.  
**Original Combination:** *Thecla Marius*  
**Type Locality:** "habite l'île de Cuba" in error.  
**Types:** Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 46, figs. 96 ♀ D, 97 ♀ V.
- = *aon* (Lucas, 1857)  
 In: Sagra, Hist. Cuba 7: 610, pl. 16, figs. 6 ♂ D, 6a ♂ V, 6b ♀ D.  
**Original Combination:** *Thecla Aon*  
**Type Locality:** "environs de la Havane...ausii la Yucatan"  
**Types:** Syntype in BMNH.
- = *spurina* (Hewitson, 1867)  
 Ill. diurn. Lepid. Lycaenidae 1(3): 102; 2(3): pl. 39, figs. 122 ♀ D, 123 ♀ V.  
**Original Combination:** *Thecla Spurina*  
**Type Locality:** "Amazon" in error; lectotype suggested to be from "Central America" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.  
**Types:** Lectotype in BMNH, designated by Robbins (1991), *ibid.*
- = *ericusa* (Hewitson, 1867)  
 Ill. diurn. Lepid. Lycaenidae (1): 113; (2): pl. 42, fig. 162 ♀ D.  
**Original Combination:** *Thecla Ericusa*  
**Type Locality:** "Brazil" in error; lectotype suggested to be from "Central America" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.  
**Types:** Lectotype in BMNH, designated by Robbins (1991), *ibid.*
- = *brescia* (Hewitson, 1868)  
 Descr. new Spec. Lycaenidae: 13-14, no. 31; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 51, figs. 260 ♂ D, 261 ♂ V.  
**Original Combination:** *Thecla Brescia*  
**Type Locality:** "Mexico"  
**Types:** Lectotype in BMNH, designated by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.
- = *voconia* (Hewitson, 1869)  
 Ill. diurn. Lepid. Lycaenidae 1(4): 120; 2(4): pl. 49, figs. 244 ♂ D, 245 ♂ V.  
**Original Combination:** *Thecla Voconia*  
**Type Locality:** Not stated; lectotype suggested to be from "Brazil" by Robbins (1991), Smithsonian Contrib. Zool. 498: 46.  
**Types:** Lectotype in BMNH, designated by Robbins (1991), *ibid.*

Genus *Arawacus* Kaye, 1904

- Trans. Entomol. Soc. Lond. (4)1904[52](2): 197. Type-species: *Papilio linus* Sulzer, 1776, Abgekürzte Gesch. Ins.: 144, pl. 19, figs. 10, 11 (= *Papilio aetolus* Sulzer, 1776, Abgekürzte Gesch. Ins.: 144, pl. 19, figs. 7, 8; synonym), by original designation. Robbins (2000), Proc. Entomol. Soc. Wash. 102(1): 162-169, revised this genus.
- = *Polyniphes* Kaye, 1904  
 Trans. Entomol. Soc. Lond. (4)1904[52](2): 191. Type-species: *Polyommatus dumenilii* Godart, [1824], Ency. méth. 9(Ins.)(2):(611), 677, no. 187, by original designation. As first reviser, priority was given to *Arawacus* over *Polyniphes* by Robbins (1991), Smithsonian Contrib. Zool. (498): 3.
- = *Dolymorpha* W. Holland, 1931  
 Butt. Book (rev. ed.): 228. Type-species: *Thecla jada* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 87; 2(3): pl. 34, figs. 67, 68, by monotypy.
- = *Tigrinota* K. Johnson, 1992  
 Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point)(22)(vol. I): i., 104; mention; (vol. II): 185-186, figs. 191E, 191F, 191G, 191H, 191I, 191J, 191K, 191L, 217-224. Type-species: *Thecla ellida* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 87; 2(3): pl. 34, figs. 62, 63, 64, by original designation.
425. **Arawacus jada** (Hewitson, 1867)  
 Ill. diurn. Lepid. Lycaenidae 1(3): 87; 2(3): pl. 34, figs. 67 ♂ D, 68 ♂ V.

**Original Combination:** *Thecla Jada*  
**Type Locality:** "Mexico"  
**Types:** Type(s) probably in BMNH.

#### Genus *Satyrrium* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 106, no. 8. Type-species: *Lycaena fuliginosa* W. H. Edwards, 1861, Proc. Acad. Nat. Sci. Philad. 13: 160, 164, no. 10, by original designation. The generic synonymy below generally follows Clench (1979), J. Lepid. Soc. 32(4): 277-281, with the caveat that there is disagreement over the rank of several taxa. The group is in need of revision.

#### Subgenus *Satyrrium* Scudder, 1876

- = *Chrysophanus* Hübner, 1818  
 Zutr. Samml. exot. Schmett. 1: 24. Type-species: *Chrysophanus mopsus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 24, pl. [24], figs. 135, 136; 24, no. 48 (= *Hesperia titus* Fabricius, Entomol. Syst. 3(1): 297, no. 130; synonym), by designation of N. Riley (1922), J. Bombay Nat. Hist. Soc. 28(2): 467. I.C.Z.N. *Opinion 541* suppressed this name and placed it on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 1235.
- = *Argus* Gerhard, 1850  
 Vers. monogr. Europ. Schmett. (1): 4. Type-species: *Lycaena ledereri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, by monotypy. Preoccupied by *Argus* Bohadsch, 1761, De quibusdam Anim. marinis Liber.: 56. I.C.Z.N. *Opinion 541* placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 733.
- = *Callipsyche* Scudder, 1876  
 Bull. Buffalo Soc. Nat. Sci. 3: 106, no. 9. Type-species: *Thecla behrii* W. H. Edwards, 1870, Trans. Am. Entomol. Soc. 3(1): 10, 18-19, no. 11, by original designation. It is unclear where or when precedence was given to *Satyrrium* over *Callipsyche*, this was possibly done by Clench (1961), in: P. Ehrlich and A. Ehrlich, How Know Butts.: 192.
- = *Neolycaena* de Nicéville, 1890  
 Butts. India Burmah Ceylon 3: 15, key, no. 107, 64, no. 107, pl. 26. Type-species: *Lycaena sinensis* Alphéraky, 1881, Horae Soc. Entomol. Ross. 16(3/4): 383, no. 39, pl. 14, fig. 7, by original designation. I.C.Z.N. *Opinion 899* placed this name on the *Official List of Generic Names in Zoology* as name no. 1885.
- = *Edwardsia* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Papilio w-album* Knoch, 1782, Beitr. Insektengesch. 2: 85, pl. 6, figs. 1, 2, by original designation. Preoccupied by *Edwardsia* Costa, 1838, Fauna Regno Napoli, Crust.: *Edwardsia* 1.
- = *Felderia* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Papilio w-album* var. *eximia* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 271-273, no. 17, pl. 13, fig. 2, by original designation. Preoccupied by *Felderia* Walsingham, 1887, Trans. Entomol. Soc. Lond. 35(2): 165.
- = *Kollaria* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Thecla sassanides* Kollar, [1849], Denkschr. K. Akad. Wiss. Wien., Math.-naturw. Cl. 1: 51, by original designation. Preoccupied by *Kollaria* Pictet, 1841, Hist. Nat. Ins. Neuropt. Perlides: 114.
- = *Erschoffia* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Thecla lunulata* Erschoff, 1874, Mém. Soc. Amis Sci. Nat. Moscou 11(2): 7, pl. 1, fig. 5, by original designation. Preoccupied by *Erschoffia* Swinhoe, 1900, Cat. east. Lepid. Het. Oxford Univ. Mus. 2: 221.
- = *Bakeria* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Lycaena ledereri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, by original designation. Preoccupied by *Bakeria* Kieffer, 1905, Ann. Mus. civ. Stor. Nat. Genova 42: 34.
- = *Klugia* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Papilio spini* [Schifferrmüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 186, by original designation. Preoccupied by *Klugia* Robineau-Desvoidy, 1863, Hist. Nat. Dipt. Paris 1: 785-787.
- = *Nordmannia* Tutt, [1907]  
 Nat. Hist. Brit. Butts. 2(4/5): 143. Type-species: *Lycaena myrtale* Klug, 1834, in: Ehrenberg, Sym. Phys. Ins. 4: signature I, pl. 40, figs. 15, 16, by original designation.
- = *Chattendenia* Tutt, [1908]  
 Nat. Hist. Brit. Butts. 2(25): 483. Type-species: *Papilio w-album* Knoch, 1782, Beitr. Insektengesch. 2: 85, pl. 6, figs. 1, 2, as a replacement name; proposed to replace *Edwardsia* Tutt, [1907], preoccupied (Code Articles 60.3, 67.8). As first reviser, Hemming (1964), Annot. Lepid. (3): 83, accorded precedence to *Strymonidia* Tutt, [1908] over *Chattendenia*.
- = *Thecliola* Strand, 1910  
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla w-album* var. *eximia* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 271, pl. 13, fig. 2, as a replacement name; proposed to replace *Felderia* Tutt, [1907], preoccupied (Code Articles 60.3, 67.8).
- = *Superflua* Strand, 1910  
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla sassanides* Kollar, [1849], Denkschr. K. Akad. Wiss. Wien., Math.-naturw. Cl. 1: 51, as a replacement name; proposed to replace *Kollaria* Tutt, [1907], preoccupied (Code Article 60.3, 67.8).
- = *Pseudothecla* Strand, 1910  
 Entomol. Rdsch. 27(22): 162. Type-species: *Thecla lunulata* Erschoff, 1874, Mém. Soc. Amis Sci. Nat. Moscou 11(2): 7, pl. 1, fig. 5, as a replacement name; proposed to replace *Erschoffia* Tutt, [1907] (Code Articles 60.3, 67.8).
- = *Tuttiola* Strand, 1910  
 Entomol. Rdsch. 27(22): 162. Type-species: *Papilio spini* [Schifferrmüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 186, as a replacement name; proposed to replace *Klugia* Tutt, [1907], preoccupied (Code Article 60.3, 67.8).



- = *Necovattia* Verity, 1951  
Var. Geogr. Saison. Pap. Diurn. Fr. 2[6]: 183. Type-species: *Papilio acaciae* Fabricius, 178, Mantissa Ins. 2: 69, no. 655, by original designation.
  - = *Harknclenus* dos Passos, 1970  
J. Lepid. Soc. 24(1): 28, 36. Type-species: *Chrysophanus mopsus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 24, pl. [24], figs. 135, 136; 24, no. 48 (= *Hesperia titus* Fabricius, Entomol. Syst. 3(1): 297, no. 130; synonym), as a replacement name. Proposed to replace *Chrysophanus* Hübner, [1818], a suppressed name (Code Articles 60.3, 67.8). The position of this name in synonymy follows Opler (1992), Field Guide E. Butts.: 103.
  - = *Rhymnaria* Zhdanko, 1983  
Entomol. Rev. 62(1): 135. Type-species: *Lycaena rhymnus* Eversmann, 1832, Nouv. Mém. Soc. Imp. Nat. Moscou 8[(n.s.) 2]: 350, pl. 19, figs. 1, 2, by original designation.
  - = *Armenia* Dubatolov & Korshunov, 1984  
Nov. Maloizvest. Vidy Faun. Sib. (17): 53. Type-species: *Lycaena ledeneri* Boisduval, 1848, Bull. Soc. Entomol. Fr. (2)6: xxix, as a replacement name; proposed to replace *Argus* Gerhard, 1850, Vers. monogr. Europ. Schmett. (1): 4, preoccupied (Code Articles 60.3, 67.8).
426. **Satyrrium fuliginosa** (W. H. Edwards, 1861)  
A. Warren (2005), Butts. Ore.: 142-146, discussed the relationship and distinctions between *S. fuliginosa* and *S. semiluna*.
- a. **Satyrrium fuliginosa fuliginosa** (W. H. Edwards, 1861)  
Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 164, no. 10.  
**Original Combination:** *Lycaena fuliginosa*  
**Type Locality:** "California"; neotype from "Summit," currently known as Norden, El Dorado County, California.  
**Types:** Neotype in CMNH, designated by Opler (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(1): 28, fig. 3 ♂ D&V. A subsequent "neotype" in the USNM was designated by Mattoon and Austin (1998), Syst. W. N. Am. Butts. (53): 682 (this is the lectotype of *suasa*), who claimed that the first neotype represents populations that Lorquin, the probable collector of the original types, would not have likely sampled. Further research may demonstrate this a faulty assumption.  
Species-genus gender conformation is *fuliginosum*.  
= *suasa* (Boisduval, 1869)  
Annls. Soc. Entomol. Belg. 12: 51, no. 34; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 240, fig. 2080 ♂ D&V.  
**Original Combination:** *Lycaena Suasa*  
**Type Locality:** "le sommet des montagnes de l'est"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30, figs. 225 ♂ D, 226 ♂ V.
  - b. **Satyrrium fuliginosa tildeni** Mattoon & Austin, 1998  
Syst. W. N. Am. Butts. (53): 682-683, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Satyrrium fuliginosum tildeni*  
**Type Locality:** "California: Siskiyou County; Siskiyou Mountains, forest route 40S01, 1675-2065 m, T47N R9W S19"  
**Types:** Holotype in MGCL.
  - c. **Satyrrium fuliginosa albolineatum** Mattoon & Austin, 1998  
Syst. W. N. Am. Butts. (53): 684, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Satyrrium fuliginosum albolineatum*  
**Type Locality:** "California: Lake County; North Coast Range above 1350 m on ridgeline of Boardman Ridge, on Forest Route 1N02, 3.6-5.0 road miles south of Hull Mountain (T19N R10W S11, 14, 23)"  
**Types:** Holotype in MGCL.
427. **Satyrrium semiluna** Klots, 1930
- a. **Satyrrium semiluna semiluna** Klots, 1930  
Bull. Brooklyn Entomol. Soc. 25(3): 161-162, no. 400, figs. 5 ♂ D, 6 ♂ V (holotype).  
**Original Combination:** *Satyrrium fuliginosum semiluna*  
**Type Locality:** "Half Moon Ranch, Moose P. O., Jackson Hole, Wyo." [Teton County, Wyoming]  
**Types:** Holotype in AMNH.
  - b. **Satyrrium semiluna maculadistinctum** Mattoon & Austin, 1998  
Syst. W. N. Am. Butts. (53): 685-686, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.  
**Original Combination:** *Satyrrium fuliginosum maculadistinctum*  
**Type Locality:** "Nevada: Lyon County; Sweetwater Mountains, west slope of East Sister, 2633 m, T8N R24E S28"  
**Types:** Holotype in MGCL.  
= ♀ "immaculata" Gunder, 1927  
Can. Entomol. 59(12): 283, no. 6, pl. A, fig. 6 ♀ V ("Holotype").  
**Original Combination:** *Satyrrium fuliginosum* tr. f. *immaculata*  
**Type Locality:** "McGee's Creek on highway, nr. Mammoth, Mono Co., Calif." [California]  
**Types:** "Holotype" in AMNH.
428. **Satyrrium behrii** (W. H. Edwards, 1870)
- a. **Satyrrium behrii behrii** (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(1): 10, 18-19, no. 11.  
**Original Combination:** *Thecla Behrii*  
**Type Locality:** "Lake Mono, California" [Mono County]  
**Types:** Neotype in CMNH, designated by Opler (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(1): 30, fig. 4 ♂ D&V.  
= *kali* (Strecker, [1878])



Lepid. Rhop. Het. (14): 129.

**Original Combination:** *Thecla Kali*

**Type Locality:** "Arizona"

**Types:** Holotype in FMNH.

This name likely represents a subspecies-level taxon, but has not been applied by recent workers.

= *‡*"nigroinita" (Gunder, 1924)

Entomol. News 35(5): 154, pl. 2, fig. A ♂ D ("Holotype").

**Original Combination:** *Callipsyche behrii* ab. ♂ *nigroinita*

**Type Locality:** "Mammoth Camp, Mono County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 50, fig. 23 ♂ D.

- b. *Satyrrium behrii columbia* (McDunnough, 1944)

Can. Entomol. 76(9): 190.

**Original Combination:** *Callipsyche behrii columbia* var. nov.

**Type Locality:** "Fairview, B. C." [British Columbia]

**Types:** Holotype (#5474) in CNC.

Scott (1986), Butts. N. Am.: 365, and A. Warren (2005), Butts. Ore.: 146, treated this taxon as a synonym of *S. b. behrii*.

- c. *Satyrrium behrii crossi* (W. D. Field, 1938)

J. Kansas Entomol. Soc. 11(4): 130-131.

**Original Combination:** *Callipsyche behrii crossi*

**Type Locality:** "Nederland, Colorado" [Boulder County]

**Types:** Holotype in USNM.

429. *Satyrrium acadica* (W. H. Edwards, 1862)

- a. *Satyrrium acadica acadica* (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55, no. 2; figured by W. H. Edwards (1869), Butts. N. Am. [1](3): pl. Thecla 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D.

**Original Combination:** *Thecla acadica*

**Type Locality:** "near London" [Ontario]

**Types:** Holotype in CNC, figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 46, fig. 11 ♂ D&V.

Species-genus gender conformation is *academicum*.

= *souhegan* (Whitney, 1868)

Proc. Boston Soc. Nat. Hist. 12: 162-163.

**Original Combination:** *Thecla Souhegan*

**Type Locality:** "Milford, N. H."; "Souhegan River" implied from the formation of the name. [Hillsborough County, New Hampshire]

**Types:** Type(s) may be in MCZ or DCM.

= *watrini* (Dufrane, 1939)

Bull. Anns. Soc. Entomol. Belg. 79(7/8): 289-290.

**Original Combination:** *Thecla acadica watrini*

**Type Locality:** "Saskatchewan [*sic*!], Canada" [Saskatchewan]

**Types:** Holotype may be in MRAC.

Layberry *et al.* (1998), Butts. Can.: 130, considered this a synonym of *acadica*.

= *‡*"muskoka" (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 450.

**Original Combination:** *Strymon acadica acadica* ab. *muskoka*

**Type Locality:** "Gravenhurst, Muskoka District, Ontario, Canada"

**Types:** "Holotype" in AMNH.

T. Freeman (1938), Can. Entomol. 70(12): 248, discussed this taxon and called it a "valid population"; such action might be considered an elevation in status.

= *‡*"swetti" (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 450-451.

**Original Combination:** *Strymon acadica souhegan* ab. *swetti*

**Type Locality:** "Stony Clove, Greene County, New York, altitude 1500 to 2000 feet"

**Types:** "Holotype" in AMNH.

- b. *Satyrrium acadica montanensis* (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 451.

**Original Combination:** *Strymon acadica montanensis*

**Type Locality:** "Montana"

**Types:** Holotype in AMNH.

- c. *Satyrrium acadica coolinensis* (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 451.

**Original Combination:** *Strymon acadica coolinensis*

**Type Locality:** "Coolin, Idaho" [Bonner County]

**Types:** Holotype in AMNH.

The placement of this taxon as a subspecies of *S. acadica* requires further investigation.

430. *Satyrrium californica* (W. H. Edwards, 1862)

- a. *Satyrrium californica californica* (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223, no. 3.

**Original Combination:** *Thecla Californica*

**Type Locality:** "California"; neotype from "Capell Crk./along 37/Napa Co. Calif." This was interpreted as "Capell Creek, 9 mi. NNE of Napa, Napa Co., California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 101.

**Types:** Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 41-43, fig. 9 ♂ D&V. Species-genus gender conformation is *californicum*.

= *borus* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 43, no. 15; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, fig. 1953 ♂ D&V.

**Original Combination:** *Thecla Borus*

**Type Locality:** "au pied des montagnes, surtout en tirant vers l'est"; defined as "Hwy. 70 at Chambers Creek, ca. 6 road miles SW of Belden, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25, figs. 177 ♂ D, 178 ♂ V.

- b. *Satyrion californica cygnus* (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 205, 207-208, no. 4.

**Original Combination:** *Thecla Cygnus*

**Type Locality:** "Nevada"; neotype from "3 miles southwest of Virginia City, 6700 ft., Storey County, Nevada."

**Types:** Neotype in CMNH, designated by Opler (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 45-46 fig. 10 ♀ D&V.

- c. *Satyrion californica obscurafacies* Austin, 1998  
Syst. W. N. Am. Butts. (45): 543-544, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Satyrion californicum obscurafacies*

**Type Locality:** "Nevada: White Pine County; Snake Range, Baker Creek Campground, 2150 m, T13N R69E (unsectioned) on USGS Wheeler Peak, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

- d. *Satyrion californica brashor* Kondla & Scott, 2006  
Papilio (n.s.) 12: 45, pl. 4, 2nd row right ♂ D&V.  
**Original Combination:** *Satyrion californica brashor*  
**Type Locality:** "Mica Creek, near Osoyoos, British Columbia"  
**Types:** Holotype in BCPM.

- e. *Satyrion californica wapiti* M. Fisher, 2006  
Papilio (n.s.) 12: 46, pl. 6, 5th row left ♂ D, 6th row left ♂ V (holotype), 5th row left center ♀ D, 6th row left center ♀ V.  
**Original Combination:** *Satyrion californica wapiti*  
**Type Locality:** "Hwy. 133 near Oliver, 6860 ft., Gunnison Co., Colorado"  
**Types:** Holotype in CSUC.

431. *Satyrion sylvinus* (Boisduval, 1852)

- a. *Satyrion sylvinus sylvinus* (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2)10(2): 287-288, no. 16; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1920 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 76, fig. 15 ♂ D.

**Original Combination:** *Thecla sylvinus*

**Type Locality:** "Californie"; suggested to be "Region of San Francisco, Cal." by W. Comstock (1913), Bull. Brooklyn Entomol. Soc. 9(2): 32; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9, figs. 12 ♂ D, 13 ♂ V.

Species-genus gender conformation is *sylvinum*.

- b. *Satyrion sylvinus nootka* M. Fisher, 1998  
In: Scott, Papilio (n.s.) 11: 4-5, fig. 9 ♂ D, 10 ♀ D. Figured by M. Fisher (2006), Papilio (n.s.) 12: pl. 6, 5th row right center ♂ D, 6th row right center ♂ V (holotype), 5th row right ♀ D, 6th row right ♀ V.

**Original Combination:** *Satyrion sylvinus nootka*

**Type Locality:** "Wellington, Vancouver Island, British Columbia, Canada"

**Types:** Holotype in LACM.

- c. *Satyrion sylvinus putnami* (Hy. Edwards, 1877)  
Proc. Calif. Acad. Sci. [1]7(10): 143-144.  
**Original Combination:** *Thecla Putnami*  
**Type Locality:** "Mt. Nebo, Utah" [Juab-Utah counties]  
**Types:** Holotype in AMNH.

Scudder (1876), Bull. Buff. Soc. Nat. Sci. 3: 109, no. 217, listed [*Thecla*] *putnami* from "Spring Lake, Utah" without a description or indication; a *nomen nudum*.

- d. *Satyrion sylvinus megapallidum* Austin, 1998  
Syst. W. N. Am. Butts. (45): 544, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

**Original Combination:** *Satyrion sylvinum megapallidum*

**Type Locality:** "Nevada: Elko County; Elko, 12th Street at Humboldt River, 1536 m, T34N R55E S14 on USGS Elko East, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

- e. *Satyrion sylvinus itys* (W. H. Edwards, 1882)  
Papilio 2(2): 23.  
**Original Combination:** *Thecla Itys*  
**Type Locality:** "Prescott" [Yavapai County, Arizona]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 238, pl. 29, fig. 17 ♀ D, as "type"; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 40, fig. 8 ♀ D&V.

- f. *Satyrrium sylvinus desertorum* (F. Grinnell, 1917)  
Can. Entomol. 49(10): 349-350.

**Original Combination:** *Strymon sylvinus desertorum*

**Type Locality:** "Oak Creek, Kern County, California"

**Types:** Holotype in AMNH.

- g. *Satyrrium sylvinus dryope* (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(1): 10, 19-20, no. 13.

**Original Combination:** *Thecla Dryope*

**Type Locality:** "Plain County, Colorado"; corrected to "Placer Co., California" by W. H. Edwards (1870), Trans. Am. Entomol. Soc. 3(2): 194, no. 8; defined as "Santa Clara Co., California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 49.

**Types:** Probable holotype in AMNH, as noted by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 49-50, fig. 12 ♂ D&V.

432. *Satyrrium titus* (Fabricius, 1793)

- a. *Satyrrium titus titus* (Fabricius, 1793)

Entomol. Syst. 3(1): 297, no. 130; cited Jones' Icones vol. 6, pl. 44, fig. 2.

**Original Combination:** *H[esperia]. R[urales]. Titus*

**Type locality:** "Anglia Dom. Drury"; stated to be "probably Newfoundland" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 99; suggested to be "Millhaven Plantation, Screven County, Georgia" by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 7.

**Types:** Lectotype (#Rh1060) in BMNH, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 2, fig. 3 ♀ V, as "holotype."

I.C.Z.N. *Opinion 503* placed this name on the *Official List of Specific Names in Zoology* as name no. 1605.

= *mopsus* (Hübner, 1818)

Zutr. Samml. exot. Schmett. 1: pl. [24], figs. 135 ♂ D, 136 ♂ V [1813], 24, no. 48 (1818, name given).

**Original Combination:** *Chrysophanus Mopsus*

**Type Locality:** "Georgien in Florida"; neotype from "Millhaven Plantation, Screven Co., Georgia."

**Types:** Type(s) probably lost; neotype in MGCL, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): 7, fig. 5 ♀ V.

*Rusticus mopsus* Hübner, 1808, Erste Zutr. Samml. exot. Schmett.: 6, was described in a document that was suppressed by I.C.Z.N. *Opinion 789*.

- b. *Satyrrium titus winteri* (Gatrell, 2004)

Tax. Rep. Int. Lepid. Surv. 4(6): 10, figs. 23 ♂ D&V (holotype), 24 ♀ D&V, 25 ♂ V, 26 ♀ V.

**Original Combination:** *Harkencenus titus winteri*

**Type Locality:** "Sherborn" [Middlesex County, Massachusetts]

**Types:** Holotype in MGCL.

- c. *Satyrrium titus campus* (Gatrell, 2004)

Tax. Rep. Int. Lepid. Surv. 4(6): 10-11, figs. 9 ♂ D, 10 ♂ V (holotype); fig. 11 ♂ V, fig. 12 ♂ V, 13 ♂ V, 16 ♀ D&V, 17 ♀ V, 18 ♀ V.

**Original Combination:** *Harkencenus titus campus*

**Type Locality:** "Iowa: Shelby County, visc. [sic!] of Defiance"

**Types:** Holotype in MGCL.

- d. *Satyrrium titus watsoni* (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 94, no. 363b.

**Original Combination:** *Strymon titus* race *watsoni*

**Type Locality:** "Kerrville, Texas" [Kerr County]

**Types:** Holotype in USNM.

- e. *Satyrrium titus immaculosus* (W. Comstock, 1913)

Bull. Brooklyn Entomol. Soc. 8(3): 33, pl. II, fig. A ♂ D, B ♀ D, C ♂ D, D ♀ D, E ♂ V, F ♀ V, G ♂ V, H ♀ V.

**Original Combination:** *Strymon titus immaculosus*

**Type Locality:** "Provo, Utah" [Utah County]

**Types:** Holotype in AMNH; figured by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(6): fig. 21 ♂ D&V.

- f. *Satyrrium titus occidentalis* Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 507, figs. 27 ♂ D, 28 ♂ V (holotype); 29 ♀ D, 30 ♀ V.

**Original Combination:** *Harkencenus titus occidentalis*

**Type Locality:** "Nevada: Pershing County; Humboldt Range, Star Creek Canyon, 5-6 road miles west of Nevada state route 400, 1890 m, T31N R34E S22 on USGS Inlay, Nev. 15' quadrangle"

**Types:** Holotype in LACM.

433. *Satyrrium edwardsii* (Grote & Robinson, 1867)

- a. *Satyrrium edwardsii edwardsii* (Grote & Robinson, 1867)

Trans. Am. Entomol. Soc. 1(2): 172-173.

**Original Combination:** *Thecla edwardsii*

**Type Locality:** "Canada"; neotype from "Queenstown, Ontario."

**Types:** Neotype in AMNH, designated by Michener and dos Passos (1942), Am. Mus. Novit. (1210): 4.

This name was published in synonymy, but is employed under the provisions of Code Article 11.6.1. Grote and Robinson [1869], Trans. Am. Entomol. Soc. 2(2): 179-205, and Scudder (1870), Proc. Boston Soc. Nat. Hist. 13: 273-274, 276, treated this as a name properly described by Grote and Robinson (1867), thus validating the name.



≠ "fabricii" W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 654, no. 276 bis; cited Scudder (1870), Proc. Boston Nat. Hist. Soc. 13: 272-276; *Thecla falacer* T. Harris (1862), Ins. injur. Veget. (3rd ed.): 276; *Thecla calanus* Grote & Robinson, (1867), Trans. Am. Entomol. Soc. 1(2): 172, 173, and Grote and Robinson, (1868), Trans. Am. Entomol. Soc. 1(4): 324.

**Original Combination:** *T[hecla]. fabricii*

**Type Locality:** Not stated.

**Types:** Location of types not known.

This name was described by indication, but several taxa were implied.

b. *Satyrrium edwardsii meridionale* Gatrell, 2001

Tax. Rep. Int. Lepid. Surv. 3(2): 5, figs. 2 ♂ V (holotype), 7 ♀ V, 11 ♀ D.

**Original Combination:** *Satyrrium edwardsii meridionale*

**Type Locality:** "South Carolina: Aiken County, along south boundary of Aiken State Park"

**Types:** Holotype in MGCL.

434. *Satyrrium calanus* (Hübner, [1809])

a. *Satyrrium calanus calanus* (Hübner, [1809])

Samml. exot. Schmett. 1: pl. [100], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Rusticus armatus Calanus*

**Type Locality:** Not stated; suggested to be "Amer. sept." by W. F. Kirby (1908), in: P. Wytsman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 71.

**Types:** Type(s) probably lost.

= *wittfeldii* (W. H. Edwards, 1883)

Can. Entomol. 15(7): 136-137.

**Original Combination:** *Thecla Wittfeldii*

**Type Locality:** "Indian River, Florida"; defined as "vicinity of Georgiana, Brevard County, Florida" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 39.

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 39, fig. ♂ D&V.

b. *Satyrrium calanus falacer* (Godart, [1824])

Ency. méth. 9(Ins.) (2): (600), 633, no. 58; figured by Boisduval and Le Conte (1833), Hist. Lépid. Amér. sept. (10): pl. 29, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

**Original Combination:** *Polyommatus Falacer*

**Type Locality:** "environs de Philadelphia, Amérique septentrional" [Philadelphia County, Pennsylvania]

**Types:** Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 21.

= *lorata* (Grote & Robinson, 1867)

Trans. Am. Entomol. Soc. 1(2): 171-172.

**Original Combination:** *Thecla lorata*

**Type Locality:** "Atlantic District. (Virginia!)"

**Types:** Syntype in AMNH.

= *inorata* (Grote & Robinson, 1868)

Trans. Am. Entomol. Soc. 1(4): 323-324; cited Boisduval and Le Conte [1833], Hist. Lépid. Amér. sept.(10): pl. 29, figs. 1-5.

**Original Combination:** *Thecla inorata*

**Type Locality:** "Atlantic District (Can.! N. Y.! Ga.!)" ; syntype from "New York."

**Types:** Syntype in AMNH.

= *heathii* (Fletcher, 1903)

Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 211-212, pl. fig. ♀ V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, fig. 16 ♀ V.

**Original Combination:** *Thecla heathii*

**Type Locality:** "valley of the Long River, a few miles from Cartwright, in southern Manitoba. This spot is about ten miles north of the boundary of North Dakota and about twenty-five miles north-east of the Turtle Mountains."

**Types:** Holotype in USNM.

Fletcher (1904), Can. Entomol. 36(5): 125, pl. ♀, redescribed this taxon. D. Stallings and Turner (1943), Entomol. News 54(5): 131, pl. 2, determined this synonymy.

= *boreale* (Lafontaine, 1969)

Trail & Landscape 3: 151; redescribed by Lafontaine (1970), J. Lepid. Soc. 24(2): 83-86, figs. 1 ♂ V, 2 ♂ D (lectotype), 3 ♀ V, 4 ♀ D, fig. 7 ♂ genitalia.

**Original Combination:** *Strymon boreale*

**Type Locality:** Defined as "Britannia Park, Ottawa, Ont." by Lafontaine (1970), J. Lepid. Soc. 24(2): 84. [Ontario]

**Types:** Lectotype (#11077) in CNC, designated by Lafontaine (1970), J. Lepid. Soc. 24(2): 84.

Gall (1976), J. Lepid. Soc. 30(3): 214-218, discussed this name and its taxonomic status.

c. *Satyrrium calanus godarti* (W. D. Field, 1938)

J. Kansas Entomol. Soc. 11(4): 129-130.

**Original Combination:** *Strymon falacer godarti*

**Type Locality:** "Rosemont, Teller Co., Colorado"

**Types:** Holotype in USNM.

d. *Satyrrium calanus albidus* Scott, 1981

Papilio (n.s.) 1: 5.

**Original Combination:** *Satyrrium calanus albidus*

**Type Locality:** "NW Hayden, Routt Co., Colo." [Colorado]

- Types:** Holotype in LACM.  
Species-genus gender conformation is *albidum*.
435. **Satyrrium caryaevorus** (McDunnough, 1942)  
Can. Entomol. 74(1): 1.  
**Original Combination:** *Strymon caryaevorus*  
**Type Locality:** "Merivale, Ont." [Ontario]  
**Types:** Holotype (#5262) in CNC.  
Species-genus gender conformation is *caryaevorum*.
436. **Satyrrium kingi** (Klots & Clench, 1952)  
Am. Mus. Novit. (1600): 2-7, figs. 1A ♂ genitalia, 1D penis, 1G ♀ genitalia, 2A ♂ D (holotype), 2B ♀ D, 2C ♂ V (holotype), 2D ♀ V, 2E ♂ V, 2F ♂ V, 3A ♂ V, 3B ♀ V.  
**Original Combination:** *Strymon kingi*  
**Type Locality:** "Savannah, Georgia" [Chatham County]  
**Types:** Holotype in AMNH.
437. **Satyrrium liparops** (Le Conte, 1833) (1793)  
a. **Satyrrium liparops floridensis** Gatrell, 2001  
Tax. Rep. Int. Lepid. Surv. 3(3): 7-8, figs. 20 ♂ D, 21 ♂ V (holotype); 22 ♀ D, 23 ♀ V.  
**Original Combination:** *Satyrrium liparops floridensis*  
**Type Locality:** "Withlacoochee State Forest, Citrus County, Florida"  
**Types:** Holotype in MGCL.  
b. **Satyrrium liparops liparops** (Le Conte, 1833) (1793)  
*In:* Boisduval and Le Conte, Hist. Lépid. Amér. sept. (10): 99-100 [1833], (11): pl. 31, figs. 1 ♀ D, 2 ♀ V, 3 larva, 4 pupa [1835].  
**Original Combination:** *T[hecla] Liparops*  
**Type Locality:** "Georgie"; defined as "Screven Co., Georgia" by Klots (1951), Field Guide Butts. N. Am.: 138; neotype from "Screven Co., Ga, Millhaven Plantation nr. Brier [sic] Ck." [Briar Creek]  
**Types:** This taxon was described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(3): 3-4, figs. 11 ♂ D, 12 ♂ V.  
Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88, established *Thecla liparops* Le Conte, 1833, as a *nomen protectum* (Code Article 23.9.2).  
= *anacreon* (Fabricius, 1793)  
Entomol. Syst. 3(1): 268, no. 34; cited Jones' Icones 6: pl. 5, fig. 4.  
**Original Combination:** *H[esperia]. R[urales]. Anacreon*  
**Type Locality:** "India Dom. Drury"  
**Types:** Location of type(s) not known.  
Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88, established *Hesperia anacreon* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).  
c. **Satyrrium liparops strigosa** (T. Harris, 1862)  
Ins. injur. Veget. (3rd ed.): 276.  
**Original Combination:** *Thecla strigosa*  
**Type Locality:** "Blue Hill" [Norfolk County, Massachusetts]  
**Types:** Holotype (#26347) in MCZ.  
Species-genus gender conformation is *strigosum*.  
= *pruina* (Scudder, 1889)  
Butts. E. U. S. & Can. 2(6): 879-880.  
**Original Combination:** *T[hecla]. l[iparops]. [ab.] pruina*  
**Type Locality:** "New England" implied from the title of the book, or possibly near the residence of "Miss Guild," at "Walpole, Massachusetts." [Norfolk County]  
**Types:** "Holotype" may be in MCZ.  
d. **Satyrrium liparops fletcheri** (Michener & dos Passos, 1942)  
Am. Mus. Novit. (1210): 3.  
**Original Combination:** *Strymon liparops fletcheri*  
**Type Locality:** "Manitoba"; Fletcher's specimens were listed from "Manitoba: Beulah...Cartwright...Aweme...Brandon...Rounthwaite."  
**Types:** Holotype in USNM.  
Proposed for *Thecla strigosa* var. *liparops* (sensu Fletcher, 1903, Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 211-212, pl. fig. ♂ D&V), of which a "cotype" was chosen as holotype.  
e. **Satyrrium liparops aliparops** (Michener & dos Passos, 1942)  
Am. Mus. Novit. (1210): 3.  
**Original Combination:** *Strymon liparops aliparops*  
**Type Locality:** "Glenwood Springs, Colorado" [Garfield County]  
**Types:** Holotype in AMNH.
438. **Satyrrium auretteorum** (Boisduval, 1852)  
a. **Satyrrium auretteorum auretteorum** (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2)10(2): 288, no. 17; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1921 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 76, fig. 14 ♂ D.

**Original Combination:** *Thecla auretorum*

**Type Locality:** "Californie" implied from the title of the paper; defined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9.

**Types:** Holotype in USNM; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 15 ♂ D, 16 ♂ V.

= *tacita* (Hy. Edwards, 1881)

Papilio 1(4): 54-55.

**Original Combination:** *Thecla tacita*

**Type Locality:** "Mendocino Co., Cal." [California]

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 19 ♂ D.

b. **Satyrrium auretorum spadix** (Hy. Edwards, 1881)

Papilio 1(4): 53.

**Original Combination:** *Thecla spadix* n. sp.

**Type Locality:** "Tehachepi [*sic!*] Pass, S. California" [Tehachapi Pass, Kern County]

**Types:** Holotype in AMNH.

c. **Satyrrium auretorum fumosum** J. Emmel & Mattoni, 1990

J. Res. Lepid. 28(1/2): 102-103, figs. 1, lower row, ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Satyrrium auretorum fumosum*

**Type Locality:** "California, Los Angeles County, Malibu Lake"

**Types:** Holotype in LACM.

439. **Satyrrium tetra** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 19, no. 12.

**Original Combination:** *Thecla Tetra*

**Type Locality:** Not stated; neotype from "Arroyo Bayo, Santa Clara County, California."

**Types:** Neotype in CMNH, designated by F. Brown and Clench (1970), Trans. Am. Entomol. Soc. 96(1): 36, fig. 6 ♂ D&V.

= *adenostomatis* (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. [1]7(10): 144-145.

**Original Combination:** *Thecla Adenostomatis*

**Type Locality:** "Tehachepi [*sic!*] Pass, Southern California" [Tehachapi Pass, Kern County]

**Types:** Holotype in AMNH.

‡"adenostoma" Scudder, 1876

Bull. Buff. Soc. Nat. Sci. 3: 111, no. 226.

**Original Combination:** [*Thecla*] *adenostoma*

This is an unpublished manuscript name credited to Hy. Edwards without description or indication; a *nomen nudum*.

440. **Satyrrium saepium** (Boisduval, 1852)

a. **Satyrrium saepium saepium** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 288, no. 18; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1922 ♂ D&V.

**Original Combination:** *Thecla saepium*

**Type Locality:** "Californie" implied from the title of the paper; defined as "Tuolumne County, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 33; redefined as "vicinity of Queen Lily Campground, near Belden, North Fork Feather River Canyon, elev. 2400', Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 9.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 10, figs. 18 ♂ D, 19 ♂ V.

= *okanagana* (McDunnough, 1944)

Can. Entomol. 76(9): 190-191.

**Original Combination:** *Strymon saepium okanagana* var. nov.

**Type Locality:** "Peachland, B. C." [British Columbia]

**Types:** Holotype (#5502) in CNC.

A. Warren (2005), Butts. Ore.: 154, determined this synonymy.

= *illepida* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 195, fig. 191O ♀ D&V [actually a ♂]; the ♀ ductus bursae in fig. 227 (supposedly of the holotype) was excluded from the holotype by Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 204.

**Original Combination:** *Ignata illepida*

**Type Locality:** "Sierra Paramo [*sic*], Bolivia" in error; presumably somewhere in the western United States.

**Types:** Holotype in BMNH.

Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 204, figs. 17 ♂ D, 18 ♂ V (holotype), determined the status of this taxon. It is not possible to accurately place this taxon in the synonymy of *S. saepium* at this time.

b. **Satyrrium saepium fulvescens** (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. [1]7(12): 172.

**Original Combination:** *Thecla saepium* n. var. *fulvescens*

**Type Locality:** "Lake Tahoe...Tehachepi [*sic!*] Pass...Havilah, Kern County"; defined as "Havilah, Kern County, California" by Austin (1998), Syst. W. N. Am. Butts. (50): 632.

**Types:** Lectotype (#5915) in AMNH, designated by Austin (1998), Syst. W. N. Am. Butts. (50): 632.

c. **Satyrrium saepium chalcis** (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 376.

**Original Combination:** *Thecla Chalcis*



- Type Locality:** "California"; neotype from "Isabel Creek, Santa Clara Co., California."  
**Types:** Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 33, fig. 5 ♂ D&V.
- d. **Satyrium saepium rubrotenebrosus** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (13): 161-162, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Satyrium saepium rubrotenebrosus*  
**Type Locality:** "California: San Mateo County; San Bruno Mountains"  
**Types:** Holotype in CAS.
- e. **Satyrium saepium caliginosum** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (13): 160-161, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Satyrium saepium caliginosum*  
**Type Locality:** "California: San Luis Obispo County; Baywood Park"  
**Types:** Holotype in LACM.
- f. **Satyrium saepium chlorophora** (F. Watson & W. Comstock, 1920)  
 Bull. Am. Mus. Nat. Hist. 42(10): 452.  
**Original Combination:** *Strymon saepium chlorophora*  
**Type Locality:** "San Diego, California" [San Diego County]  
**Types:** Holotype in AMNH.
- g. **Satyrium saepium subaridum** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (13): 159-160, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Satyrium saepium subaridum*  
**Type Locality:** "California: Inyo County; Hunter Mountain east of Nelson Range; small stream and meadow 0.4 air mile [sic] southeast of Peak 7107 on 1951 U.S.G.S. Marble Canyon quadrangle, 6,800' elevation"  
**Types:** Holotype in LACM.
- h. **Satyrium saepium obscuroides** Austin, 1998  
 Syst. W. N. Am. Butts. (45): 545, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.  
**Original Combination:** *Satyrium saepium obscuroides*  
**Type Locality:** "Nevada: Elko County; Jarbidge Mountains, road to Success Mine, 0.5 miles south of Bonanza Gulch, 2423 m, T46N R58E S28 on USGS Jarbidge, Nev.-Idaho 15' quadrangle"  
**Types:** Holotype in MGCL.
- i. **Satyrium saepium latalinea** Austin & Savage, 1998  
 Syst. W. N. Am. Butts. (48): 613-614, 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Satyrium saepium latalinea*  
**Type Locality:** "Utah: Washington County; Pine Valley Mountains, Leeds Creek, 5.3-7.2 (road) miles west of Leeds, 1525-1710 m...USGS New Harmony, 15 minute quadrangle, T40S R14W S16, 21, 22"  
**Types:** Holotype in MGCL.
- j. **Satyrium saepium provo** (F. Watson & W. Comstock, 1920)  
 Bull. Am. Mus. Nat. Hist. 42(10): 452.  
**Original Combination:** *Strymon saepium provo*  
**Type Locality:** "Provo, Utah" [Utah County]  
**Types:** Holotype in AMNH.

#### Subgenus *Fixsenia* Tutt, [1907]

Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Thecla herzi* Fixsen, 1887, in: Romanoff, Mém. Lépid. 3: 279-280, pl. 13, fig. 4, by original designation. The following synonymy is derived from Clench (1979), J. Lepid. Soc., 32(4): 277-281.

= *Leechia* Tutt, [1907]

Nat. Hist. Brit. Butts. 2(4/5): 142. Type-species: *Thecla thalia* Leech, [1893], Butts. China Japan Korea (2) (text pt. 3): 367; (plate pt. 3/4): pl. 30, fig. 15, by original designation. Preoccupied by *Leechia* South, 1901, Trans. Entomol. Soc. Lond. (4) 1901[49] (4): 400. I.C.Z.N. *Opinion* 503 placed this name on the *Official Index of Rejected and Invalid Specific Names in Zoology* as name no. 1237.

= *Strymonidia* Tutt, [1908]

Nat. Hist. Brit. Butts. 2(25): 483. Type-species: *Thecla thalia* Leech, [1893], Butts. China Japan Korea (2) (text pt. 3): 367; (plate pt. 3/4): pl. 30, fig. 15, as a replacement name. Proposed to replace *Leechia* Tutt, [1907] (Code Article 60.3, 67.8). I.C.Z.N. *Opinion* 541 placed this name on the *Official List of Generic Names in Zoology* as name no. 1333.

= *Euristrymon* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 184, 212. Type-species: "*Thecla favonius*" J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 27, pl. 14 (= *Papilio favonius*), by original designation.

#### 441. *Satyrium favonius* (J. E. Smith, 1797)

##### a. *Satyrium favonius ontario* (W. H. Edwards, 1868)

Trans. Am. Entomol. Soc. 2(2): 209-210; figured by W. H. Edwards (1869), Butts. N. Am. [1] (4): pl. Thecla 2, figs. 1 ♂ D, 2 ♂ V (holotype).

**Original Combination:** *Thecla ontario*

**Type Locality:** "Port Stanley, Ontario"

**Types:** Holotype in CNC; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 71, fig. 23 ♂ D&V. Robbins (1994), Am. Butts. 2(3): 29-30, determined that *ontario* and *favonius* are conspecific.

##### b. *Satyrium favonius favonius* (J. E. Smith, 1797)

In: Smith and Abbot, Ins. Georgia 1: 27-28, pl. 14, figs. ♂ D, ♀ D, ♀ V, larva, pupa.

**Original Combination:** *Papilio Favonius*

**Type Locality:** "Georgia" implied from the notes to John Abbot's original drawing.

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost.

- c. *Satyrrium favonius autolyceus* (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 266, 271, no. 8.

**Original Combination:** *Thecla Autolyceus*

**Type Locality:** "Dallas, Texas" [Dallas County]

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 73, fig. 24 ♂ D&V.

- d. *Satyrrium favonius violae* (D. Stallings & Turner, 1947)  
Pan-Pac. Entomol. 23(3): 119-120.

**Original Combination:** *Strymon ontario violae*

**Type Locality:** "Folsom, N. Mexico...elevation 5600 ft." [Union County, New Mexico]

**Types:** Holotype in USNM.

442. *Satyrrium ilavia* (Beutenmüller, 1899)

J. N. Y. Entomol. Soc. 7(4): 254.

**Original Combination:** *Thecla ilavia*

**Type Locality:** "Texas"

**Types:** Syntypes in AMNH, probably also CMNH. A specimen loaned to W. Holland by Beutenmüller was figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 65, fig. 15 ♂ D.

Robbins (1994), Am. Butts. 2(3): 30, determined that this is a species-level taxon.

= *mirabelle* (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 43-44.

**Original Combination:** *Thecla Mirabelle*

**Type Locality:** "Utah" apparently in error.

**Types:** Holotype in USNM.

443. *Satyrrium polingi* (W. Barnes & Benjamin, 1926)

- a. *Satyrrium polingi polingi* (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 94, no. 354.1.

**Original Combination:** *Strymon polingi*

**Type Locality:** "Sunny Glen Ranch, near Alpine, Brewster Co., Texas"

**Types:** Holotype in USNM.

- b. *Satyrrium polingi organensis* Ferris, 1980

J. Lepid. Soc. 34(2): 221-223, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V, 14 ♂ VHW (holotype).

**Original Combination:** *Fixsenia polingi organensis*

**Type Locality:** "Organ Mts., Doña Ana Co., New Mexico...Finley Canyon, W Slope Organ Mts....ca. 6500 ft. (1980m)"

**Types:** Holotype in MGCL.

#### Genus *Phaeostrymon* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 179, 190. Type-species: *Thecla alcestitis* W. H. Edwards, 1871, Trans. Am. Entomol. Soc. 3(3/4): 266, 271-272, no. 9, by original designation.

444. *Phaeostrymon alcestitis* (W. H. Edwards, 1871)

- a. *Phaeostrymon alcestitis alcestitis* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 271-272, no. 9.

**Original Combination:** *Thecla Alcestitis*

**Type Locality:** "Dallas, Texas" [Dallas County]

**Types:** Holotype in CMNH, figured by W. Holland (1898), Butt. Book: pl. 29, fig. 14 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 24, fig. 2 ♀ D&V.

- b. *Phaeostrymon alcestitis oslari* (Dyar, 1904)

J. N. Y. Entomol. Soc. 12(1): 40.

**Original Combination:** *Thecla oslari*

**Type Locality:** "Tucson, Arizona" [Pima County]

**Types:** Holotype (#7726) in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 65, fig. 13 ♂ D.

#### Genus *Ocaria* Clench, 1970

J. Lepid. Soc. 24(1): 56, fig. 1 ♂ genitalia. Type-species: *Thecla ocrisia* Hewitson, 1868, Descr. new Spec. Lycaenidae: 5-6, no. 29, by original designation.

= ‡*Galba* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. I): i, 104, name mentioned; (vol. II): 167-168, figs. 88, 89, 183, 184.

Type-species: *Galba ehvira* K. Johnson, 1992, Rep. Mus. Nat. Hist., Univ. Wisc.: 168-169, figs. 88, 183, by original designation. Preoccupied by *Galba* Schrank 1803, Fauna boic. 3(2): 262.

= *Variegatta* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. I): i, 104, name mentioned; (vol. II): 180-181, figs. 191, 213, 214. Type-species: *Thecla elongata* Hewitson, 1870, Equatorial Lepid. Buckley (4): 60, no. 108, by original designation.

- = *Lamasa* K. Johnson, 1992  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. I): i, 104, name mentioned; (vol. II): 183. Type-species: *Thecla calesia* Hewitson, 1870, Equatorial Lepid. Buckley (4): 67-68, no. 121, by original designation.
- = *Arases* K. Johnson, 1992  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. I): i, 104, name mentioned; (vol. II): 196-197, figs. 191P, 191Q, 191R, 191S, 228, 229, 230, 231. Type-species: *Arases clenchi* K. Johnson, 1992, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 197 (a replacement name for *Thecla sesara* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 90, footnote), by original designation.
445. **Ocaria ocrisia** (Hewitson, 1868)  
Descr. new Spec. Lycaenidae: 5-6, no. 12; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 48, figs. 235 ♂ D, 236 ♀ D.  
**Original Combination:** *Thecla Ocrisia*  
**Type Locality:** "Ecuador"  
**Types:** Holotype in BMNH.  
Robbins (1989), in: Ferris, Mem. Lepid. Soc. (3): 28, stated "there are several species lumped under the name *ocrisia*..." Records from Texas may or may not represent *O. ocrisia*.  
= *zora* (Hewitson, 1869)  
Ill. diurn. Lepid. Lycaenidae: 1(4): 134; 2(4): pl. 53, figs. 304 ♀ D, 305 ♀ V.  
**Original Combination:** *Thecla Zora*  
**Type Locality:** "Amazon (Pará)" [Brazil]  
**Types:** Holotype in BMNH.  
= *peruviana* Ershov, 1876  
Trudy Russk. Entomol. Obshch. 10(1): 57-58, pl. 1, fig. 4 ♂ D&V.  
**Original Combination:** *Thecla Peruviana*  
**Type Locality:** "Peruvio"  
**Types:** Type(s) probably in ZIN.  
= *lita* (Hayward, 1949)  
Acta zool. Lilloana 8: 570-571.  
**Original Combination:** *Thecla ocrisia* subsp. *lita* nov.  
**Type Locality:** "Tucumán" [Argentina]  
**Types:** Holotype in IMLA.

#### Genus *Chlorostrymon* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 179, 189. Type-species: *Thecla telea* Hewitson, 1868, Descr. new Spec. Lycaenidae: 4-5, no. 10, by original designation.

446. **Chlorostrymon simaethis** (Drury, 1773)  
a. **Chlorostrymon simaethis simaethis** (Drury, 1773)  
Illustr. Nat. Hist. 1: 3: pl. 1, fig. 3 ♂ D, 3a ♂ V (1770); 2: index (1773, name given).  
**Original Combination:** *Papilio Simaethis*  
**Type Locality:** "St. Christopher's" [St. Kitts, Saint Kitts and Nevis]  
**Types:** Type(s) lost.  
#lycus Skinner, 1898  
Syn. Cat. N. Am. Rhop.: 48, no. 287.  
**Original Combination:** [*Thecla*] *Lycus* "Hübner"  
This name was listed as a synonym of *simaethis* without a description or indication; a *nomen nudum*.  
b. **Chlorostrymon simaethis sarita** (Skinner, 1895)  
Entomol. News 6(4): 112-113.  
**Original Combination:** *Thecla sarita*  
**Type Locality:** "Comal County, Texas"  
**Types:** Holotype (#7043) in ANSP.
447. **Chlorostrymon maesites** (Herrich-Schäffer, 1865)  
Corresp.-Bl. zool.-min. Ver. Regensburg 18(11/12): 165, no. 7.  
**Original Combination:** [*Thecla*] *maesites*  
**Type Locality:** "Cuba" implied from the title of the paper.  
**Types:** Location of type(s) not known.
448. **Chlorostrymon telea** (Hewitson, 1868)  
Descr. new Spec. Lycaenidae: 4-5, no. 10; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(5): pl. 57, figs. 350 ♂ D, 351 ♂ V.  
**Original Combination:** *Thecla Telea*  
**Type Locality:** "Amazon"  
**Types:** Holotype in BMNH; ♂ genitalia of the holotype figured by K. Johnson (1989), J. Lepid. Soc. 43(2): fig. 5E.  
K. Johnson (1989), J. Lepid. Soc. 43(2): 127, 134-135, determined that *C. telea* and *C. maesites* are species-level taxa.

#### Genus *Cyanophrys* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 201, 211. Type-species: *Strymon agricolor* Butler & H. Druce, 1872, Cist. Entomol. 1(5):



105-106, by original designation.

- = *Plesiocyanophrys* K. Johnson, Eisele & MacPherson, 1993  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 2, 3. Type-species: *Thecla goodsoni* Clench, 1946, Entomol. 79(8) [999]: 186, by original designation.
  - = *Anteiphrys* K. Johnson, Eisele & MacPherson, 1993  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 2, 3-4. Type-species: *Anteiphrys prestoni* K. Johnson, Eisele & MacPherson, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 4-5, pl. 9, fig. 2, by original designation.
  - = *Apophrys* K. Johnson & Le Crom, 1997  
Revta. Thecl. Colomb. 1(2): 17. Type-species: *Hesperia herodotus* Fabricius, 1793, Entomol. Syst. 3(1): 286-287, no. 100, by original designation.
  - = *Mesocyanophrys* K. Johnson & Le Crom, 1997  
Revta. Thecl. Colomb. 1(2): 17. Type-species: *Thecla lycimna* Hewitson, 1868, Descr. new Spec. Lycaenidae: 33, no. 70 (= *Thecla acaste* Prittwitz, 1865, Stettiner Entomol. Ztg. 26(4/5): 318; synonym), by original designation.  
    - ‡"Mesocyanophrys" d'Abrera, 1995  
Butts. Neotrop. Reg. VII: 1144  
Name proposed without description; a *nomen nudum*.
    - ‡"Paracyanophrys" d'Abrera, 1995  
Butts. Neotrop. Reg. VII: 1144, 1146.  
Name proposed without description; a *nomen nudum*.
    - ‡"Mesacyanophrys" d'Abrera, 1995  
Butts. Neotrop. Reg. VII: 1144.  
Name proposed without description; a *nomen nudum*.
449. **Cyanophrys goodsoni** (Clench, 1946)  
Entomol. 79(8) [999]: 186-187, no. 8.  
**Original Combination:** *Thecla goodsoni*  
**Type Locality:** "Tegucigalpa, Honduras"  
**Types:** Holotype in BMNH.
450. **Cyanophrys herodotus** (Fabricius, 1793)  
Entomol. Syst. 3(1): 286-287, no. 100; cited Jones' Icones 6: pl. 18, fig. 1; figured by Donovan (1800), Epit. Ins. India: pl. 39, fig. 2 (a copy from Jones' Icones).  
**Original Combination:** *H[esperia]. R[urales]. Herodotus*  
**Type Locality:** "Indiis Dom. Drury"  
**Types:** Type(s) probably lost; based on specimens figured by Jones.  
Robbins (2004), in: Lamas, Atlas of Neotrop. Lepid. Chkls: Part 4A: 125, presented an extensive putative synonymy for this species, some of which is not reproduced here; a neotype designation is needed to put this synonymy into context.
- = *lucania* (Hewitson, 1868)  
Descr. new Spec. Lycaenidae: 33, no. 71.  
**Original Combination:** *Thecla Lucania*  
**Type Locality:** "Mexico"  
**Types:** Holotype in BMNH.  
Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 1(7): 205, determined this synonymy.
  - = *sicrana* (E. D. Jones, 1912)  
Proc. Zool. Soc. Lond. 1912(4): 896, pl. 97, fig. 3 ♂ D&V.  
**Original Combination:** *Thecla sicrana*  
**Type Locality:** "Castro, Paraná, Brazil"  
**Types:** Holotype in BMNH.
  - = *detesta* Clench, 1946  
Entomol. 79(7) [998]: 155, no. 5.  
**Original Combination:** *Thecla detesta*  
**Type Locality:** "Sta. Fe de Bogota, Colombia"  
**Types:** Holotype in BMNH.
  - = *amyntoides* K. Johnson & Le Crom, 1997  
Revta. Thec. Colomb. 1(3): 4, text fig. 6, ♂ & ♀ genitalia, photoplate III(a), figs. I ♂ V, J ♀ V.  
**Original Combination:** *Cyanophrys amyntoides*  
**Type Locality:** "Bolivia, Sara-Province, Buena Vista"  
**Types:** Holotype in CMNH.
  - = *descimoni* K. Johnson & Le Crom, 1997  
Revta. Thec. Colomb. 1(3): 4, text fig. 5, ♀ genitalia, photoplate III(a), fig. K ♀ V (holotype).  
**Original Combination:** *Cyanophrys descimoni*  
**Type Locality:** "Ecuador, Guayas Province, Parque Nacional de Salado"  
**Types:** Holotype in MGCL.
  - = *brazilensis* K. Johnson & Kruse, 1997  
Revta. Thec. Colomb. 1(5): 21, text fig. 1D ♀ genitalia, photoplate IV(b), fig. A ♀ D&V (holotype).  
**Original Combination:** *Plesiocyanophrys brazilensis*  
**Type Locality:** "Brazil, Mato Grosso State, Rio Pardo"  
**Types:** Holotype in AMNH.

- = *sullivani* K. Johnson & Kruse, 1997  
 Revta. Thec. Colomb. 1(5): 26, text fig. 2E ♂ & ♀ genitalia, photoplate IB(b), figs. E ♂ D&V (holotype), F ♀ D&V.  
**Original Combination:** *Cyanophrys sullivanii*  
**Type Locality:** "Nicaragua, Managua Department"  
**Types:** Holotype in AMNH.  
 ‡"circuncyanophrys" d'Abrera, 1995  
 Butts. Neotrop. Reg. VII: 1144, figs. ♂ D, ♀ V.  
**Original Combination:** *Cyanophrys circumcyanophrys*  
 Name proposed without description; a *nomen nudum*.  
 ‡"amyntoides" d'Abrera, 1995  
 Butts. Neotrop. Reg. VII: 1144, fig. ♂ D.  
**Original Combination:** *Cyanophrys amyntoides*  
 Name proposed without description; a *nomen nudum*.  
 ‡"sicranoides" d'Abrera, 1995  
 Butts. Neotrop. Reg. VII: 1144, fig. ♂ D.  
**Original Combination:** *Cyanophrys sicranoides*  
 Name proposed without description; a *nomen nudum*.  
 ‡"braziliensis" d'Abrera, 1995  
 Butts. Neotrop. Reg. VII: 1146, 1148, fig. ♀ D.  
**Original Combination:** [*Cyanophrys*] *braziliensis*  
 Name proposed without description; a *nomen nudum*.
451. **Cyanophrys miserabilis** (Clench, 1946)  
 Entomol. 79(7)[1998]: 156-157, no. 6.  
**Original Combination:** *Thecla miserabilis*  
**Type Locality:** "Rincon, Guerrero, Mexico, 2800 ft."  
**Types:** Holotype in BMNH.  
 = *simplex* Clench, 1981  
 Bull. Allyn Mus. (64): 2-5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5a-c, ♂ genitalia, 6, 6a ♀ female genitalia.  
**Original Combination:** *Callophrys (Cyanophrys) miserabilis simplex*  
**Type Locality:** "Ajijic, 6000 ft. [ca. 1850 m], Jalisco, Mexico"  
**Types:** Holotype (# 23125) in CMNH.  
 = *eupatorium* K. Johnson & Kruse, 1997  
 Revta. Thecl. Colomb. 1(5): 29, text fig. 2H.  
**Original Combination:** *Cyanophrys eupatorium*  
**Type Locality:** "Mexico, Nuevo Leon State, Cola de Caballo [*sic!*]" [Cola de Caballo]  
**Types:** Holotype in TAMU.

#### Genus *Callophrys* Billberg, 1820

Enum. Ins. Mus. Billb.: 80. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 132, no. 202.

#### Subgenus *Callophrys* Billberg, 1820

There is no consensus on the number of Nearctic species in this subgenus (*e.g.*, Austin (1981), J. Res. Lepid. 19(4): 242, Scott and Justice (1983), J. Res. Lepid. 20(2): 81-85, Scott (1986), Butts. N. Am.: 376-379, Austin (1998), Syst. W. N. Am. Butts. (49): 619-628, J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (13): 164-165, A. Warren (2005), Butts. Ore.: 114-125). The following arrangement is partly based on my own field experience in a critical geographical region.

- = ‡*Lycus* Hübner, [1819]  
 Verz. bekannt. Schmett. (5): 74. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 210, no. 651. Preoccupied by *Lycus* Fabricius, 1787, Mantissa Ins. 1: 163.
- = ‡*Licus* Hübner, 1823  
 Zutr. Samml. exot. Schmett. 2: [7]. Type-species: *Papilio rubi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 154, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 52. A junior objective synonym of *Callophrys*, and possibly an incorrect subsequent spelling of *Lycus* Hübner, [1819].
452. **Callophrys affinis** (W. H. Edwards, 1862)  
 This species was reviewed by Gorelick (2005), J. Lepid. Soc. 59(4): 181-190.
- a. **Callophrys affinis washingtonia** Clench, 1944  
 Bull. Mus. Comp. Zool. 94(6): 219, 225-226.  
**Original Combination:** *Callophrys affinis washingtonia*  
**Type Locality:** "Alta Lake, Washington" [Okanogan County]  
**Types:** Holotype (#26259) in MCZ.
- b. **Callophrys affinis affinis** (W. H. Edwards, 1862)  
 Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223-224, no. 5.  
**Original Combination:** *Thecla Affinis*

- Type Locality:** "Utah"; defined as "Silver Lake, Utah" by Clench (1944), Bull. Mus. Comp. Zool. 94(6): 225; corrected to "vicinity of Fort Bridger, Wyoming" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 63, 65. [Uinta County, Wyoming]  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 65, fig. 20 ♂ D&V.
- c. ***Callophrys affinis homoperplexa*** W. Barnes & Benjamin, 1923  
 Contrib. Nat. Hist. Lepid. N. Am. 5(2): 68-69.  
**Original Combination:** *Callophrys apama* race *homoperplexa*  
**Type Locality:** "Golden" [Jefferson County, Colorado].  
**Types:** Holotype in USNM.
- d. ***Callophrys affinis apama*** (W. H. Edwards, 1882)  
 Papilio 2(8): 137-138.  
**Original Combination:** *Thecla Apama*  
**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 17 ♀ V.
- e. ***Callophrys affinis albipalpis*** Gorelick, 2005  
 J. Lepid. Soc. 59(4): 188, figs. 9, 14 ♂ V (holotype), 13 ♀ V.  
**Original Combination:** *Callophrys affinis albipalpis*  
**Type Locality:** "New Mexico State University's Montgomery Biological Research Laboratory...10 km north of Ruidoso, 2134m, Sacramento Mountains" [Lincoln County, New Mexico]  
**Types:** Holotype in LACM.
453. ***Callophrys dumetorum*** (Boisduval, 1852)  
 Anns. Soc. Entomol. Fr. (2)10(2): 291, no. 22; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1926 ♀ D&V.  
**Original Combination:** *Thecla dumetorum*  
**Type Locality:** "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 11.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 11, figs. 30 ♀ D, 31, ♀ V.  
 The lectotype of this taxon is a specimen of what had, before this designation, been called *Callophrys viridis* (W. H. Edwards, 1862). As discussed by A. Warren (2005), *C. dumetorum* and *C. sheridanii* are apparently conspecific.  
 = *viridis* (W. H. Edwards, 1862)  
 Proc. Acad. Nat. Sci. Philad. 14(5): 221, 223, no. 4.  
**Original Combination:** *Thecla Viridis*  
**Type Locality:** "California"; defined as "San Francisco, California" by Clench (1944), Bull. Mus. Comp. Zool. 94(6): 226. [San Francisco County]  
**Types:** Lectotype in CMNH, designated by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(1): 67, fig. 21 ♂ D&V.
454. ***Callophrys sheridanii*** (W. H. Edwards, 1877)
- a. ***Callophrys sheridanii pseudodumetorum*** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (13): 165, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.  
**Original Combination:** *Callophrys perplexa pseudodumetorum*  
**Type Locality:** "California: Trinity County; Ruth Reservoir, in the North Coast Ranges"  
**Types:** Holotype in LACM.  
 This taxon is apparently conspecific with *C. sheridanii*, as implied by A. Warren (2005), Butts. Ore.: 118-119.
- b. ***Callophrys sheridanii newcomeri*** Clench, 1963  
 J. Res. Lepid. 2(2): 154.  
**Original Combination:** *Callophrys (Callophrys) sheridanii newcomeri*  
**Type Locality:** "Mill Creek, 1800 ft., Yakima Co., Washington"  
**Types:** Holotype in CMNH.
- c. ***Callophrys sheridanii lemberti*** Tilden, 1963  
 J. Res. Lepid. 1(4): 292, 294, 296, fig. 2, bottom ♂ D&V.  
**Original Combination:** *Callophrys lemberti*  
**Type Locality:** "West above Tioga Pass, Yosemite National Park, Calif...about 1 mile, where the Gaylor Lakes Trail reaches its highest point before dropping down to Gaylor Basin, thence southerly along the ridge to rock ou[t]crops, about two to three hundred yards" [Tuolumne County]  
**Types:** Holotype in CAS.
- d. ***Callophrys sheridanii interrupta*** Austin, 1998  
 Syst. W. N. Am. Butts. (49): 621, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype), 1 third row middle ♂ D, 2 third row middle ♂ V, 1 third row right ♂ D, 2 third row right ♂ V, 1 fourth row left ♀ D, 2 fourth row left ♀ V, 1 fourth row middle ♀ D, 2 fourth row middle ♀ V, 1 fourth row right ♀ D, 2 fourth row right ♀ V.  
**Original Combination:** *Callophrys comstocki interrupta*  
**Type Locality:** "Nevada: Churchill County; south end of Stillwater Mountains (= Sand Springs Range), U.S. route 50, 5.5-5.6 miles west of Frenchman, 1660 m, T16N R32E S11 on USGS Frenchman 7 1/2' quadrangle"  
**Types:** Holotype in MGCL.
- e. ***Callophrys sheridanii comstocki*** Henne, 1940  
 Bull. South. Calif. Acad. Sci. 39(1): 71-72.  
**Original Combination:** *Callophrys comstocki*  
**Type Locality:** "Providence Mts., San Bernardino County, California"  
**Types:** Holotype in LACM.



- f. ***Callophrys sheridanii paradoxa*** Scott, 1986  
Butts. N. Am.: 379, no. 345, pl. 39, fig. 345g.  
**Original Combination:** [*Callophrys sheridanii*] *paradoxa*  
**Type Locality:** "lowland w Colo., and E Utah"  
**Types:** Types possibly never designated.  
The name *paradoxa* was used by Stanford and Opler (1993), Atlas W. USA Butts.: 150. Scott (1986) provided a brief description for this taxon, but without designating types; probably a *nomen nudum*.
- g. ***Callophrys sheridanii neoperplexa*** W. Barnes & Benjamin, 1923  
Contrib. Nat. Hist. Lepid. N. Am. 5(2): 67.  
**Original Combination:** *Callophrys sheridanii* race *neoperplexa*  
**Type Locality:** "Eureka, Utah" [Juab County]  
**Types:** Holotype in USNM.
- h. ***Callophrys sheridanii sheridanii*** (W. H. Edwards, 1877) (emended)  
*In:* Carpenter, Field & Forest 3(3): 48.  
**Original Combination:** *Thecla Sheridanii*  
**Type Locality:** "Big Horn Mountains...about 8000 elev."; defined as "near Sheridan, Wyoming" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 63. [Sheridan County, Wyoming]  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 63, fig. 19 ♀ D&V.  
The specific name is a patronym of Civil War General P. H. Sheridan as mentioned in the text, thus the emendation (Code Articles 19.2, 32.2.2, 33.2).
- i. ***Callophrys sheridanii sacramento*** Scott, 2006  
Papilio (n.s.) 12: 46-47, pl. 4, 2nd row, right center ♂ D&V (holotype).  
**Original Combination:** *Callophrys sheridanii sacramento*  
**Type Locality:** "1 mi. E. Cloudcroft, Otero Co. New Mex." [New Mexico]  
**Types:** Holotype in BMNH.
455. ***Callophrys perplexa*** W. Barnes & Benjamin, 1923
- a. ***Callophrys perplexa superperplexa*** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (13): 166, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.  
**Original Combination:** *Callophrys perplexa superperplexa*  
**Type Locality:** "California: Inyo County; Big Pine Creek, 6500' elevation, east slope of Sierra Nevada"  
**Types:** Holotype in LACM.  
The status of this taxon as a subspecies of *C. perplexa* is tentative; it may be conspecific with *C. sheridanii*.
- b. ***Callophrys perplexa perplexa*** W. Barnes & Benjamin, 1923  
Contrib. Nat. Hist. Lepid. N. Am. 5(2): 65.  
**Original Combination:** *Callophrys dumetorum* race *perplexa*  
**Type Locality:** "San Diego, California" [San Diego County]  
**Types:** Holotype in USNM.
- c. ***Callophrys perplexa oregonensis*** Gorelick, [1970]  
J. Res. Lepid. 7(2): 101-103.  
**Original Combination:** *Callophrys dumetorum oregonensis*  
**Type Locality:** "Kusshi Creek, 2220', Yakima County, Washton [*sic!*]" [Washington]  
**Types:** Holotype in CAS.

Subgenus **Mitoura** Scudder, 1872 (emended)

4th Ann. Rep. Peabody Acad. Sci. (1871): 52, errata. Type-species: *Thecla smilacis* Boisduval & Le Conte, [1835], Hist. Lépid. Amér. sept. (11): 107-108, pl. 33, figs. 5-8 (= *Lycus gryneus* Hübner, [1819], Verz. bekannt. Schmett. (5): 74; subspecies), by original designation. Spelled "Mitouri" by Scudder (1872: 52), an incorrect original spelling; the name was spelled correctly in the errata. Spelled "Mitura" by W. F. Kirby [1874], Zool. Rec. 9(1872) (Ins.): 350; an unjustified emendation or incorrect subsequent spelling.

456. ***Callophrys gryneus*** (Hübner, [1819])

There is no easy way to accommodate the diverse opinions on the specific arrangement in this complex (*e.g.*, K. Johnson (1978), J. Lepid. Soc. 32(1): 3-19, Scott (1986), Butts. N. Am.: 373-374, Opler (1999), Field Guide W. Butts.: 217-219, A. Warren (2005), Butts. Ore.: 125-133).

- a. ***Callophrys gryneus sweadneri*** (F. Chermock, 1945)  
Can. Entomol. 76(11): 216.  
**Original Combination:** *Mitoura sweadneri*  
**Type Locality:** "St. Augustine, Florida" [St. Johns County]  
**Types:** Location of holotype not known, possibly in CMNH.
- b. ***Callophrys gryneus smilacis*** (Boisduval & Le Conte, [1835])  
Hist. Lépid. Amér. sept. (11): 107-108, pl. 33, figs. 5 ♂ D, 6 ♀ V, 7 larva, 8 pupa.  
**Original Combination:** *T[hecla]. Smilacis*  
**Type Locality:** "Géorgie"; neotype from "nr. Fort Pulaski, Chatham County, GA."  
**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(4): 5, figs. 27 ♂ D, 28 ♂ V.
- c. ***Callophrys gryneus gryneus*** (Hübner, [1819])  
Verz. bekannt. Schmett. (5): 74, no. 732; cited *Papilio damon* Stoll, 1781, Utitl. Kapellen 4(32): pl. 390, figs. C, D.

**Original Combination:** *L[ycus]. Gryneus*

Proposed to replace *Papilio damon* Stoll, 1781, preoccupied, with the same data (Code Article 60.3).

Species-genus gender conformation is *grynea*.

= *damon* (Stoll, 1781)

Uitl. Kapellen 4(32): 208, pl. 390, figs. C ♀ D, D ♀ V; (34): 249 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus] Ruralis Damon*

**Type Locality:** "Virginien" "Virginie"; stated to be "Rappahanock Co., Virginia" by K. Johnson (1978), J. Lepid. Soc. 32(1): 14; neotype from "Aiken County, South Carolina."

**Types:** Type(s) probably lost. Gatrell (2001), Tax. Rep. Int. Lepid. Surv. 3(4): 3, figs. 29 ♂ D, 30 ♂ V, designated a neotype, in MGCL, for "*Mitoura grynea*"; by this it is inferred that he implied *Papilio damon* Cramer, 1781.

Preoccupied by *Papilio damon* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182.

= *damastus* (Godart, [1824])

Ency. méth. 9(Ins.) (2): (602), 640, no. 86; cited *Papilio damon* Stoll, 1781, Uitl. Kapellen 4(32): pl. 390, figs. C, D.

**Original Combination:** *Polyommatus Damastus*

Proposed as a replacement name for *Papilio damon* Stoll, 1781, preoccupied, with the same data (Code Article 60.3).

= *auburniana* (T. Harris, 1862)

Ins. injur. Veget. (3rd ed.): 277.

**Original Combination:** *Thecla Auburniana*

**Type Locality:** "a favorite spot near Cambridge, formerly known by the name of Sweet Auburn" [Middlesex County, Massachusetts]

**Types:** Syntypes (#26346) in MCZ.

= *patersonia* (Brehme, 1907)

Entomol. News 18(3): 82-83.

**Original Combination:** *Thecla damon* var. *patersonia*

**Type Locality:** "Garret mountains at Paterson, N. J." [Passaic County, New Jersey]

**Types:** Holotype in USNM.

= *octoscripta* (Buchholz, 1951)

Bull. Brooklyn Entomol. Soc. 46(3): 78.

**Original Combination:** *Mitoura gryneus octoscripta* n. var.

**Type Locality:** "Passaic Co., New Jersey"

**Types:** Holotype in AMNH.

d. ***Callophrys gryneus castalis*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 208, no. 5.

**Original Combination:** *Thecla Castalis*

**Type Locality:** "near Waco, Texas" [McLennan County]

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 57, fig. 16 ♂ D&V.

= *discoidalis* (Skinner, 1897)

Can. Entomol. 29(6): 156.

**Original Combination:** *Thecla damon* n. var. *discoidalis*

**Type Locality:** "Round Mountain, Blanco Co., Texas"

**Types:** Syntype (#7046) in ANSP.

= *brehmei* (W. Barnes & Benjamin, 1923)

Contrib. Nat. Hist. Lepid. N. Am. 5(2): 64.

**Original Combination:** *Thecla gryneus* race *castalis* form *brehmei*

**Type Locality:** "Shovel Mt....Texas" [Burnet County]

**Types:** "Holotype" in USNM.

e. ***Callophrys gryneus siva*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 110-111.

**Original Combination:** *Thecla Siva*

**Type Locality:** "Wingate, Arizona"; neotype from "Fort Wingate." [McKinley County, New Mexico]

**Types:** Neotype (#1357) in CMNH, designated by F. Brown and Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(1): 61, fig. 18 ♂ D&V.

= *clenchi* (K. Johnson, 1988)

Insecta Mundi 2(1): 76-80, figs. 1A ♂ D, 1B ♂ V (holotype); 2A ♂ genitalia, 2B ♀ genitalia.

**Original Combination:** *Mitoura clenchi*

**Type Locality:** "Pinery Canyon, 6500', Chiracahua Mts., Cochise Col. [sic], Arizona"

**Types:** Holotype in CMNH.

Proposed for the taxon misidentified as *Callophrys (Mitoura) siva rhodope* by Clench (1981), Bull. Allyn Mus. (64): 15. Bailowitz and Brock (1991), Butts. SE Ariz.: 183, suggested that this taxon should be considered a synonym of *C. g. siva*.

f. ***Callophrys gryneus chalcosiva*** Clench, 1981

Bull. Allyn Mus. (64): 11-13, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V, 21a-c ♂ genitalia.

**Original Combination:** *Callophrys (Mitoura) siva chalcosiva*

**Type Locality:** "S. Willow Creek, Stansbury Mts., Tooele Co., Utah"

**Types:** Holotype in MGCL.

g. ***Callophrys gryneus nelsoni*** (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 43-44, no. 17; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, fig. 1954

♂ D&V.

**Original Combination:** *Thecla Nelsoni*

**Type Locality:** “dans les grands bois de l’interieur”; defined as “Hwy. 70 at Chambers Creek, ca. 6 road miles SW of Belden, North Fork Feather River Canyon, 1850’ elev., Plumas County, California” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 25, figs. 180 ♂ D, 181 ♂ V.

= *exoleta* (Hy. Edwards, 1881)

Papilio 1(4): 53.

**Original Combination:** *Thecla nelsoni* n. var. *exoleta*

**Type Locality:** “Big Trees, Calaveras Co., Cal.” [California]

**Types:** Holotype in AMNH.

= *acuminata* K. Johnson, 1976

Bull. Allyn Mus. (38): 20-21, fig. 8 ♂ D&V (holotype), fig. 13 ♂ genitalia.

**Original Combination:** *Callophrys (Mitoura) barryi acuminata*

**Type Locality:** “Butte Falls, Jackson Co., Oregon”

**Types:** Holotype in MGCL.

A. Warren (2005), Butts. Ore.: 125, 129-130, determined this synonymy.

h. *Callophrys gryneus plicataria* K. Johnson, 1976

Bull. Allyn Mus. (38): 15-17, fig. 6 ♂ D&V (holotype), ♀ D&V, fig. 11 ♂ genitalia, fig. 15D ♀ genitalia.

**Original Combination:** *Callophrys (Mitoura) rosneri plicataria*

**Type Locality:** “Cameron Lake, S. Vancouver Island, British Columbia”

**Type Locality:** Holotype in MGCL.

= *barryi* K. Johnson, 1976

Bull. Allyn Mus. (38): 17-19, fig. 7 ♂ D&V (holotype), ♀ D&V, fig. 12 ♂ genitalia, fig. 15A ♀ genitalia.

**Original Combination:** *Callophrys (Mitoura) barryi*

**Type Locality:** “Union Co., Oregon” in error; determined to be “near the community or company of Union Mills, Clackamas County, Oregon, ca. 500” by A. Warren (2005), Butts. Oregon: 128, 131.

**Types:** Holotype in MGCL.

A. Warren (2005), Butts. Oregon: 125, 131, determined this synonymy and gave precedence to *plicataria* over *barryi* as first reviser.

i. *Callophrys gryneus rosneri* K. Johnson, 1976

Bull. Allyn Mus. (38): 13-15, fig. 5 ♂ D&V (holotype), ♀ D&V, fig. 10 ♂ genitalia, fig. 15C ♀ genitalia.

**Original Combination:** *Callophrys (Mitoura) rosneri*

**Type Locality:** “2 mi S. Kaslo, nr. Kootenay Lake, British Columbia”

**Types:** Holotype in MGCL.

j. *Callophrys gryneus byrnei* K. Johnson, 1976

Bull. Allyn Mus. (38): 21-24, fig. 9 ♂ D&V (holotype), ♀ D&V, fig. 14 ♂ genitalia, fig. 15B ♀ genitalia.

**Original Combination:** *Callophrys (Mitoura) byrnei*

**Type Locality:** “5.6 mi. S. Emida, Benewah Co., Idaho”

**Types:** Holotype in MGCL.

k. *Callophrys gryneus juniperaria* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(2): 37, pl. 2, figs. 5 ♂ D, 6 ♀ V, 7 ♂ V, 8 ♀ V.

**Original Combination:** *Mitoura siva juniperaria*

**Type Locality:** “Mint Canyon, Sierra Madre Mts., Cal.” [Los Angeles County, California]

**Types:** Syntypes in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 50, figs. 5 ♂ D, 6 ♀ V, 7 ♂ V, 8 ♀ V.

l. *Callophrys gryneus mansfieldi* (Tilden, 1951)

Bull. South. Calif. Acad. Sci. 50(2): 96, 98, pl. 33, bottom, ♂ V (holotype).

**Original Combination:** *Mitoura siva mansfieldi*

**Type Locality:** “about seven miles west of Simmler, San Luis Obispo County, California”

**Types:** Holotype in CAS.

m. *Callophrys gryneus loki* (Skinner, 1907)

Entomol. News 18(9): 378.

**Original Combination:** *Thecla loki*

**Type Locality:** “Mt. Springs, San Diego County, Cal.” [California]

**Types:** Syntype (#7045) in ANSP; “paratype” figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 18 ♀ V.

457. *Callophrys muiri* (Hy. Edwards, 1881)

Papilio 1(4): 53-54.

**Original Combination:** *Thecla muiri*

**Type Locality:** “Mendocino Co., Cal.” [California]

**Types:** Holotype in AMNH.

Forister (2004), Ecol. Entomol. 29(3): 264-272, corroborated the species-level status of this taxon.

458. *Callophrys thornei* (J. Brown, 1983)

J. Res. Lepid. 21(4): 246-249, fig. 1, row b 3 ♀ ♀ V, 1 ♂ V, fig. 2, 2nd column ♂ & ♀ genitalia.

**Original Combination:** *Mitoura thornei*

**Type Locality:** “California, San Diego County, Little Cedar Canyon, north slope of San Ysidro Mtns. (Otay Mountain), east end of Lower Otay Lake, 200 m, 32° 37’ N, 116° 52’ W”

**Types:** Holotype in SDMC.



459. **Callophrys hesseli** (Rawson & Ziegler, 1950)a. **Callophrys hesseli hesseli** (Rawson & Ziegler, 1950)

J. N. Y. Entomol. Soc. 58(2): 74-78, fig. 1 ♂ genitalia, pl. 10, figs. 5 ♂ D, 7 ♂ V (holotype); 6 ♀ D, 8 ♀ V, 9 ♂ V.

**Original Combination:** *Mitoura hesseli***Type Locality:** "Lakehurst, Ocean County, New Jersey"**Types:** Holotype in USNM.b. **Callophrys hesseli angulata** (Gatrelle, 2001)

Tax. Rep. Int. Lepid. Surv. 3(4): 8-9, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V, 13 ♀ D, 14 ♀ V, 15 ♂ D, 16 ♂ V (holotype), 17 ♀ D, 18 ♀ V.

**Original Combination:** *Mitoura hesseli angulata***Type Locality:** "South Carolina, Aiken County, nr Aiken State Park"**Types:** Holotype in MGCL.Subgenus **Xamia** Clench, 1961*In:* P. Ehrlich and A. Ehrlich, How Know Butts.: 200, 205. Type-species: *Thecla xami* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(3): 332-333, no. 29, by original designation.460. **Callophrys xami** (Reakirt, [1867])a. **Callophrys xami xami** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 332-333, no. 29.

**Original Combination:** *Thecla Xami***Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]**Types:** Location of type(s) not known, possibly lost.= *blenina* (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 12-13, no. 29; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 50, figs. 256 ♂ D, 257 ♂ V.

**Original Combination:** *Thecla Blenina***Type Locality:** "Mexico"**Types:** Holotype in BMNH.b. **Callophrys xami texami** Clench, 1981

Bull. Allyn Mus. (64): 6-7, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.

**Original Combination:** *Callophrys (Xamia) xami texami***Type Locality:** "Corpus Christi, Texas" [Nueces County]**Types:** Holotype in MGCL.Subgenus **Sandia** Clench & P. Ehrlich, 1960*In:* P. Ehrlich and Clench, Entomol. News 71(6): 138, 139-140, pl. 1. Type-species: *Callophrys (Sandia) mcfarlandi* P. Ehrlich & Clench, 1960, Entomol. News 71(6): 138-139, by original designation.461. **Callophrys mcfarlandi** P. Ehrlich & Clench, 1960

Entomol. News 71(6): 138, 139-140, pl. 1, top right ♂ D, bottom left ♂ V (holotype), top left ♀ D, bottom right ♀ V.

**Original Combination:** *Callophrys (Sandia) mcfarlandi***Type Locality:** "La Cueva Canyon, 6300 ft., west slope of Sandia Mts., Bernalillo Co., New Mexico"**Types:** Holotype in AMNH; figured by K. Johnson (1988), Insecta Mundi 2(1): figs. 1c ♂ D, 1d ♂ V, fig. 3b male genitalia.= *madreoriente* K. Johnson, 1988

Insecta Mundi 2(1): 17, 19, figs. 1a ♂ D, 1b ♂ V (holotype), fig. 3a male genitalia.

**Original Combination:** *Sandia mcfarlandi madreoriente***Type Locality:** "Coahuila State, Mexico, Hwy. 57, 17 mi. SE Saltillo, 2,270 m."**Types:** Holotype in CMNH.Subgenus **Cisincisalia** K. Johnson, 1992Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. I): i, 104, name mentioned; (vol. II): 178. Type-species: *Cisincisalia moecki* K. Johnson, 1992, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 179-180, figs. 190, 212 (= *Callophrys guatemalena* Clench, 1981 Bull. Allyn. Mus. (64): 27-30, figs. 43-48; synonym or subspecies), by original designation.= *Loranthomitoura* Ballmer & Pratt, 1992Tropical Lepid. 3(1): 37-41. Type-species: *Thecla spinetorum* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae 1(3): 94-95, no. 99; 2(3): pl. 45, figs. 198, 199, by original designation.462. **Callophrys spinetorum** (Hewitson, 1867)a. **Callophrys spinetorum spinetorum** (Hewitson, 1867)

Ill. diurn. Lepid. Lycaenidae 1(3): 94-95, no. 99; 2(3): pl. 45, figs. 198 ♀ D, 199 ♀ V.

**Original Combination:** *Thecla Spinetorum***Type Locality:** "California"; defined as "vicinity of Gold Lake Lodge, near Gold Lake, Sierra Nevada, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (4): 83.

**Types:** Holotype in BMNH, figured by Oberthür (1913), *Étud. Lépid. Comp.* 9(1): pl. 238, fig. 1952 ♀ D&V, and J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (4): 83, figs. 1 ♀ D, 2 ♀ V.

= *ninus* (W. H. Edwards, 1871)

*Trans. Am. Entomol. Soc.* 3(3/4): 266, 270-271, no. 7.

**Original Combination:** *Thecla Ninus*

**Type Locality:** "Colorado"; defined as "South Park road four miles from the park...near Kenosha" by F. Brown (1934), *J. N. Y. Entomol. Soc.* 42(2): 161; further defined as "ca. 1 mi. E Kenosha Pass summit, U. S. Highway 285" by Shields [1966], *J. Res. Lepid.* 4(4): 233; subsequently cited as "about 1 mile east of Kenosha Pass, Park County, Colorado" by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(1): 57.

**Types:** Lectotype in CMNH, designated by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(1): 59, fig. 17 ♂ D&V.

= *cuyamaca* (W. S. Wright, 1922)

*Bull. South. Calif. Acad. Sci.* 21(2): 19-20, pl. C ♂ D, D ♂ V.

**Original Combination:** *Miltoura* [*sid*] *spinetorum cuyamaca*

**Type Locality:** "Julian, San Diego County, Calif." [California]

**Types:** Shields [1966], *J. Res. Lepid.* 4(4): 234, noted that the holotype is probably lost; one paratype in USNM, another from "Cuyamaca Lake, San Diego Co., Calif." in SDMC.

b. ***Callophrys spinetorum millerorum*** Clench, 1981

*Bull. Allyn. Mus.* (64): 21-23, figs. 34 ♂ D, 35 ♂ V (holotype); 36, 36a ♀ genitalia.

**Original Combination:** *Callophrys* (*Mitoura*) *millerorum*

**Type Locality:** "vic. El Encarnacion, 2400-2450 m, Hidalgo, Mexico"

**Types:** Holotype in MGCL.

One specimen of this taxon was recorded from Otero County, New Mexico, by K. Johnson (1986), *J. Lepid. Soc.* 39(2): 119-124.

It is unclear whether this represents a stray into the United States, or an extreme of the local range of individual variation.

463. ***Callophrys johnsoni*** (Skinner, 1904)

*Entomol. News* 15(9): 298.

**Original Combination:** *Thecla johnsoni*

**Type Locality:** "British Columbia"

**Types:** Lectotype (#7044) in ANSP, designated by W. Holland (1931), *Butt. Book* (rev. ed.): 230, pl. 75, figs. 1 ♀ D, 2 ♀ V.

Subgenus ***Incisalia*** Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 52. Type-species: *Lycus niphon* Hübner, [1819], *Verz. bekannt. Schmett.* (5): 74, no. 730, by original designation.

= *Deciduphagus* K. Johnson, 1992

*Neue Entomol. Nachr.* 29: 91. Type-species: *Thecla augustinus* Westwood, 1852, *in: Gen. diurn. Lepid.* 2(52): 486, by original designation.

464. ***Callophrys augustinus*** (Westwood, 1852)

a. ***Callophrys augustinus croesioides*** (Scudder, 1876)

*Bull. Buffalo Soc. Nat. Sci.* 3: 104, no. 200.

**Original Combination:** [*Incisalia Augustus*] *Croesioides*

**Type Locality:** "Canada and New England, southward along the Appalachians to West Virginia"; neotype from "Lakehurst, New Jersey." [Ocean County]

**Types:** Neotype in AMNH, designated by dos Passos (1943), *Am. Mus. Novit.* (1230): 2.

b. ***Callophrys augustinus helenae*** (dos Passos, 1943)

*Am. Mus. Novit.* (1230): 2.

**Original Combination:** *Incisalia augustinus helenae*

**Type Locality:** "Doyles Station, Newfoundland" [Newfoundland and Labrador]

**Types:** Holotype in AMNH.

c. ***Callophrys augustinus augustinus*** (Westwood, 1852)

*In: Gen. diurn. Lepid.* 2(52): 486.

**Original Combination:** *Thecla Augustinus*

Proposed to replace *Thecla augustus* W. Kirby, 1837, preoccupied, with the same data (Code Article 60.3).

= *†augustus* (W. Kirby, 1837)

*Fauna Bor.-Am.* [4]: 298, no. 1, pl. 3, figs. 4 ♂ D, 5 ♂ V.

**Original Combination:** *Thecla Augustus*

**Type Locality:** "Lat. 54°"; stated to be "Cumberland House, Lat. 54° N, Saskatchewan" by Klots (1951), *Field Guide Butts. N. Am.*: 146; defined as "north end of Lake Winnipeg" by W. Forbes (1960), *Mem. Cornell Univ. Agric. exp. Sta.* 371 (part 4): 133; neotype from "Fawcett, Alberta."

**Types:** Neotype in AMNH, designated by dos Passos (1943), *Am. Mus. Novit.* (1230): 2.

Preoccupied by *Hesperia augustus* Fabricius, 1793, *Entomol. Syst.* 3(1): 275, no. 62, considered to be in *Thecla* at the time of the replacement. This name was replaced by *augustinus* Westwood, 1852; even though the secondary homonymy no longer exists, the rules governing replacement names apply (Code Articles 57.3.1, 59.3).

d. ***Callophrys augustinus concava*** Austin, 1998

*Syst. W. N. Am. Butts.* (45): 545-546, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.

**Original Combination:** *Incisalia augustinus concava*

**Type Locality:** "Nevada: Elko County; Independence Mountains, Jacks Creek, 1.3 miles east of Jacks Creek Campground,

2042 m, T42N R53E S19 on Bull Run, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

e. ***Callophrys augustinus iroides*** (Boisduval, 1852)

Annl. Soc. Entomol. Fr. (2)10(2): 289-290, no. 20; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 235, fig. 1924 ♀ D&V.

**Original Combination:** *Thecla iroides*

**Type Locality:** "d'une grande partie de la California"; defined as "San Francisco, California" by dos Passos (1943), Am. Mus. Novit. (1230): 3; subsequently defined as "Hwy 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 10.

**Types:** Lectotype in USNM, designated by dos Passos (1943), Am. Mus. Novit. (1230): 3. This is the specimen figured by Oberthür (1913).

= ♀ "immaculata" (Cockle, 1897)

Can. Entomol. 42(6): 204.

**Original Combination:** *Thecla iroides* var. *immaculata*

**Type Locality:** "Kaslo, B. C." [British Columbia]

**Types:** "Holotype" in CNC.

The text clearly indicates that this taxon was described as an individual variant.

f. ***Callophrys augustinus annetteae*** (dos Passos, 1943)

Am. Mus. Novit. (1230): 3.

**Original Combination:** *Incisalia iroides annetteae*

**Type Locality:** "New Mexico"

**Types:** Holotype in AMNH.

465. ***Callophrys fotis*** (Strecker, [1878])

a. ***Callophrys fotis fotis*** (Strecker, [1878])

Lepid. Rhop. Het. (14): 129.

**Original Combination:** *Thecla Fotis*

**Type Locality:** "Arizona"; defined as "northwestern Mohave County, Arizona" by Austin (1998), Syst. W. N. Am. Butts. (45): 547.

**Types:** Lectotype in FMNH, designated by Austin (1998), Syst. W. N. Am. Butts. (45): 547.

b. ***Callophrys fotis mojaviensis*** Austin, 1998

Syst. W. N. Am. Butts. (45): 546-547, figs. 37 ♂ D, 38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.

**Original Combination:** *Incisalia fotis mojaviensis*

**Type Locality:** "Nevada: Clark County; Spring Mountains, 2 miles north of Red Cloud Mine, 1829 m, T24S R58E S5 on USGS Goodsprings, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

466. ***Callophrys mossii*** (Hy. Edwards, 1881)

Austin (1981), J. Res. Lepid. 19(4): 242, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (13): 162, detailed the species-level status of this taxon.

a. ***Callophrys mossii schryveri*** (Cross, 1937)

Proc. Colo. Mus. Nat. Hist. 16(1): 20.

**Original Combination:** *Incisalia polios schryveri*

**Type Locality:** "Chimney Gulch, Colorado" [Jefferson County]

**Types:** Holotype possibly in DMNH.

b. ***Callophrys mossii mossii*** (Hy. Edwards, 1881)

Papilio 1(4): 54.

**Original Combination:** *Thecla irus* n. var. *mossii*

**Type Locality:** "Esquimalt, Vancouver Island" [British Columbia]

**Types:** Holotype in AMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 10 ♂ D.

c. ***Callophrys mossii marinensis*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (13): 163-164, figs. 17 ♂ D, 18 ♂ D (holotype); 19 ♀ D, 20 ♀ V.

**Original Combination:** *Incisalia mossii marinensis*

**Type Locality:** "California: Marin County; along highway at confluence of Lagunitas Creek and San Geronimo Creek, 200' elevation, southwest of Lagunitas"

**Types:** Holotype in LACM.

d. ***Callophrys mossii bayensis*** R. Brown, 1969

J. Lepid. Soc. 23(2): 95-96.

**Original Combination:** *Callophrys (Incisalia) fotis bayensis*

**Type Locality:** "California, San Mateo Co., San Bruno Mts."

**Types:** Holotype (#9547) in CAS.

e. ***Callophrys mossii doudoroffi*** (dos Passos, 1940)

Can. Entomol. 72(8): 168.

**Original Combination:** *Incisalia doudoroffi*

**Type Locality:** "Big Sur, Monterey County, California"

**Types:** Holotype in AMNH.

f. ***Callophrys mossii hidakupa*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (13): 162-163, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Incisalia mossii hidakupa*



- Type Locality:** "California: San Bernardino County; San Gabriel Mountains; small side canyon of Stoddard Canyon, 0.4 air mile east of Stoddard Peak, 4300 to 4500', ca. 3 air miles south of Mt. Baldy Village; southwest 1/4 of S6 T1N R7W"
- Types:** Holotype in LACM.
- g. ***Callophrys mossii windi*** (Clench, 1943)  
Can. Entomol. 75(10): 185.  
**Original Combination:** *Incisalia doudoroffi windi*  
**Type Locality:** "Placer County, California"  
**Types:** Holotype in AMNH.
467. ***Callophrys polios*** (Cook & F. Watson, 1907)
- a. ***Callophrys polios polios*** (Cook & F. Watson, 1907)  
Can. Entomol. 39(6): 202-203; figured by Cook (1907), Can. Entomol. 39(7): pl. 5, fig. 23 ♂ V, 24 ♂ D, 25 ♀ V, 26 ♀ D.  
**Original Combination:** *Incisalia polios*  
**Type Locality:** "Lakewood, N.J." [Ocean County, New Jersey]  
**Types:** Holotype in USNM.  
= ♀ "davisii" (F. Watson & W. Comstock, 1920)  
Bull. Am. Mus. Nat. Hist. 42(10): 453.  
**Original Combination:** *Incisalia polios* ab. *davisii*  
**Type Locality:** "Manchester (now called Lakehurst), New Jersey" [Ocean County]  
**Types:** "Holotype" in AMNH.
- b. ***Callophrys polios obscurus*** (Ferris & M. Fisher, 1973)  
J. Lepid. Soc. 27(2): 115-117, figs. 2 a, b ♂ D&V (holotype), a, b ♀ D&V, c ♂&♀ D, d ♂&♀ V.  
**Original Combination:** *Incisalia polios obscurus*  
**Type Locality:** "Lookout Mountain, Jefferson Co., Colorado"  
**Types:** Holotype in LACM.
- c. ***Callophrys polios maritima*** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (69): 811-812, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Incisalia polia maritima*  
**Type Locality:** "California: Del Norte County; south end of Lake Earl"  
**Types:** Holotype in LACM.
468. ***Callophrys irus*** (Godart, [1824])
- a. ***Callophrys irus irus*** (Godart, [1824])  
In: Ency. méth. 9(Ins.) (2): (610), 674, no. 177.  
**Original Combination:** *Polyommatus Irus*  
**Type Locality:** "l'Amerique?"; suggested to be "southern area of New Jersey east of Philadelphia" by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(6A): 1A. [Camden or Burlington counties, New Jersey]  
**Types:** Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 18. This same specimen was designated neotype by Gatrell (1999), Tax. Rep. Int. Lepid. Survey 1(6) (1A): fig. 5 ♂ D&V, because there was a question as to its validity as a syntype. Faynel and Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): 277, 285, considered it the holotype.  
= ♀ "balteata" Scudder, 1889  
Butts. E. U. S. & Can. 2(6): 837-838.  
**Original Combination:** *Incis[alia]. irus* [ab.] *baltaeta*  
**Type Locality:** "Centre, near Albany" [Albany County, New York]  
**Types:** "Holotype" may be in MCZ or NYSM.
- b. ***Callophrys irus arsace*** (Boisduval & Le Conte, [1835])  
Hist. Lépid. Amér. sept. (11): 103-104, pl. 32, figs. 1 ♂ D, 2 ♀ D, 3 ♀ V, 4 larva, 5 pupa; figured by Oberthür (1920), Étud. Lépid. Comp. 17: pl. 505, figs. 4209 ♂ D&V, 4210 ♀ D&V.  
**Original Combination:** *T[hecla]. Arsace*  
**Type Locality:** "Virginie et la Géorgie"  
**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are presumed lost. "Types," possibly those figured by Oberthür, may be in USNM, but Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such "types" from the Boisduval collection.
- c. ***Callophrys irus hadros*** (Cook & F. Watson, 1909)  
Can. Entomol. 41(6): 181.  
**Original Combination:** *Incisalia hadros*  
**Type Locality:** "near Houston, Texas" [Harris County]  
**Types:** Holotype destroyed; paratype no. 15 in USNM was designated lectotype by dos Passos (1949), Can. Entomol. 81(7): 180; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 146 ♂ D.
469. ***Callophrys henrici*** (Grote & Robinson, 1867)
- a. ***Callophrys henrici henrici*** (Grote & Robinson, 1867)  
Trans. Am. Entomol. Soc. 1(2): 174.  
**Original Combination:** *Thecla henrici*  
**Type Locality:** "Atlantic District. (Maine! to Pennsylvania!)...vicinity of Philadelphia"; lectotype from "Pennsylvania."  
**Types:** Lectotype in AMNH, designated by dos Passos (1943), Am. Mus. Novit. (1230): 4.
- b. ***Callophrys henrici viridissima*** (Pavulaan, 1998)  
Maryland Entomol. 4(2): 1-3, figs. 1(left) ♂ D, 2(left) ♂ V (holotype), 1(right) ♀ D, 2(right) ♀ V.  
**Original Combination:** *Incisalia henrici viridissima*  
**Type Locality:** "Bodie Island lighthouse, near Oregon Inlet, Nag's Head, Dare Co., N. C." [North Carolina]

- Types:** Holotype in USNM; figured by Gatrell (1999), *Tax. Rep. Int. Lepid. Surv.* 1(6): fig. 19 ♂ D, 20 ♂ V.
- c. ***Callophrys henrici yahwehus*** (Gatrell, 1999)  
*Tax. Rep. Int. Lepid. Surv.* 1(6): 9-10, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V, 11 ♂ V, 12 ♂ D&V.  
**Original Combination:** *Deciduphagus henrici yahwehus*  
**Type Locality:** "vicinity of Bull Swamp, Orangeburg County, South Carolina"  
**Types:** Holotype in AMNH.
- d. ***Callophrys henrici margaretae*** (dos Passos, 1943)  
*Am. Mus. Novit.* (1230): 4.  
**Original Combination:** *Incisalia henrici margaretae*  
**Type Locality:** "eight miles east of Deland [*sic*], Florida" [De Land, Volusia County]  
**Types:** Holotype in AMNH.
- e. ***Callophrys henrici turneri*** (Clench, 1943)  
*Can. Entomol.* 75(10): 182-184.  
**Original Combination:** *Incisalia henrici turneri*  
**Type Locality:** "Cowley County, Kansas"  
**Types:** Holotype (#26011) in MCZ.
- f. ***Callophrys henrici solatus*** (Cook & F. Watson, 1909)  
*Can. Entomol.* 41(6): 181.  
**Original Combination:** *Incisalia Henrici* new variety *solatus*  
**Type Locality:** "Blanco Co., Texas"  
**Types:** Holotype destroyed; paratype no. 2 in AMNH was designated lectotype by dos Passos (1949), *Can. Entomol.* 81(7): 180.
470. ***Callophrys lanoraieensis*** (Sheppard, 1934)  
*Can. Entomol.* 66(6): 141-142.  
**Original Combination:** *Incisalia lanoraieensis*  
**Type Locality:** "Lanoraie, P. Q." [Quebec]  
**Types:** Holotype in CNC.
471. ***Callophrys niphon*** (Hübner, [1819]) (1793)  
 a. ***Callophrys niphon niphon*** (Hübner, [1819])  
*Verz. bekannt. Schmett.* (5): 74, no. 730; figured by Hübner (1823), *Zutr. Samml. exot. Schmett.* 2: [7], no. 102, pl. [36], figs. 203 ♀ D, 204 ♀ V.  
**Original Combination:** *Lycus Niphon*  
**Type Locality:** "Florida"  
**Types:** Type(s) probably lost.  
 Robbins and Lamas (2006), *J. Lepid. Soc.* 60(2): 89-90, established *Lycus niphon* Hübner, [1819], as a *nomen protectum* (Code Article 23.9.2).  
 = *plautus* (Fabricius, 1793)  
*Entomol. Syst.* 3(1): 291, no. 113; cited Jones' *Icones* 6: pl. 44, fig. 1.  
**Original Combination:** *H[esperia]. R[urales]. Plautus*  
**Type Locality:** "Indiis Dom. Drury"  
**Types:** Type(s) probably lost.  
 Robbins and Lamas (2006), *J. Lepid. Soc.* 60(2): 89-90, established *Hesperia plautus* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).  
 b. ***Callophrys niphon clarki*** (T. Freeman, 1938)  
*Can. Entomol.* 70(12): 247.  
**Original Combination:** *Incisalia niphon* var. *clarki*  
**Type Locality:** "Constance Bay, Ottawa region, Ont." [Ontario]  
**Types:** Holotype (#4430) in CNC.
472. ***Callophrys eryphon*** (Boisduval, 1852)  
 a. ***Callophrys eryphon purpurascens*** (Austin & J. Emmel, 1998)  
*Syst. W. N. Am. Butts.* (42): 508, figs. 31 ♂ D, 32 ♂ V (holotype); 33 ♀ D, 34 ♀ V.  
**Original Combination:** *Incisalia eryphon purpurascens*  
**Type Locality:** "California: Humboldt County, Samoa"  
**Types:** Holotype in LACM.  
 b. ***Callophrys eryphon sheldonensis*** (F. Chermock & Frechin, [1949])  
*Pan-Pac. Entomol.* 24(4): 212.  
**Original Combination:** *Incisalia eryphon sheldonensis*  
**Type Locality:** "Shelton, Washington" [Mason County]  
**Types:** Holotype in CMNH.  
 c. ***Callophrys eryphon eryphon*** (Boisduval, 1852)  
*Annls. Soc. Entomol. Fr.* (2) 10(2): 290, no. 21; figured by Oberthür (1913), *Étud. Lépid. Comp.* 9(1): pl. 236, fig. 19254 ♀ D&V (lectotype).  
**Original Combination:** *Thecla eryphon*  
**Type Locality:** "Californie" implied from the title of the paper; defined as "Hwy 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (2): 11.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (2): 11, figs. 27 ♀ D, 28 ♀ V.  
 d. ***Callophrys eryphon pallescens*** Austin, 1998  
*Syst. W. N. Am. Butts.* (45): 547-548, figs. 41 ♂ D, 42 ♂ V (holotype); 43 ♀ D, 44 ♀ V.

**Original Combination:** *Incisalia eryphon pallescens*

**Type Locality:** "Nevada: Nye County; Toiyabe Mountains, Jett Canyon, 2012 m, T10N R42E (unsectioned) on USGS Pablo Canyon Ranch, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

e. ***Callophrys eryphon fusca*** Austin, 1998

Syst. W. N. Am. Butts. (45): 548, figs. 45 ♂ D, 46 ♂ V (holotype); 47 ♀ D, 48 ♀ V.

**Original Combination:** *Incisalia eryphon fusca*

**Type Locality:** "Arizona: Coconino County; San Francisco Mountains, Schulz Pass Road"

**Types:** Holotype in MGCL.

Genus ***Allosmaitia*** Clench, [1964]

J. Res. Lepid. 2(4): 248, 254. Type-species: *Thecla coelebs* Herrich-Schäffer, 1862, Corresp.-Bl. zool.-min. Ver. Regensburg 16(10): 142, by original designation.

473. ***Allosmaitia strophius*** (Godart, [1824])

In: Enc. méth. 9(Ins.) (2): (599-600), 632, no. 55.

**Original Combination:** *Polyommatus Strophius*

**Type Locality:** "Brésil"

**Types:** Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 24.

= *scoteia* (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 206; 2(7): pl. 82, figs. 683 ♂ D, 684 ♂ V.

**Original Combination:** *Thecla Scoteia*

**Type Locality:** "Minas Geraes" [Minas Gerais, Brazil]

**Types:** Holotype in BMNH.

= *pion* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(56): 56, no. 101; 3(62): pl. 54, figs. 28 ♂ D, 28a ♂ scent patch, 29 ♂ V, 30 ♀ V.

**Original Combination:** *Thecla pion*

**Type Locality:** "Guatemala, Polochic valley, Dueñas...Calderas...Panama, Chiriqui"; defined as "Duenas, (Polochic Valley)" by W. Comstock and Huntington (1962), J. N. Y. Entomol. Soc. 70(2): 115. [Guatemala]

**Types:** Syntypes in BMNH.

This taxon was considered synonymous with *strophius* by Ferris (1989), Mem. Lepid. Soc. (3): 28, citing Lathy (1926), Ann. Mag. Nat. Hist. (9) 17(97): 43, although there was no mention of this synonymy by Lathy.

Genus ***Ziegleria*** K. Johnson, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 32: 52-53, pl. III, figs. 7, 8. Type-species: *Ziegleria bernardi* K. Johnson, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 32: 60, figs. D, F (= *Bithys hesperitis* Butler & Druce, 1872, Cist. Entomol. 1(5): 107; synonym), by original designation.

= *Pendantus* K. Johnson & Kroenlein, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 3-4, pl. VI, 1, fig. 2; type-species: *Thecla plusios* Godman & Salvin 1887, Biol. centr.-amer., Lepid. Rhop.: (2): 77-78, no. 158 (= *Tmolus denarius* Butler & H. Druce, 1872, Cist. Entomol. 1(5): 109; synonym), by original designation.

= *Kisutam* K. Johnson & Kroenlein, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 31. Type-species: *Thecla syllis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 92, no. 197 3(66): pl. 58, figs. 6, 7, by original designation.

474. ***Ziegleria guzanta*** (Schaus, 1902)

Proc. U. S. Nat. Mus. 24(1262): 420-421.

**Original Combination:** *Thecla Guzanta*

**Type Locality:** "Jalapa, Orizaba, Mexico" [Veracruz]

**Types:** Holotype (#5952) in USNM.

Recorded from Texas by A. Warren *et al.* (2004), News Lepid. Soc. 46(1): 28-30, 15 figs.

= *aurantiaca* (K. Johnson, 1992)

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 198, figs. 191q ♂ D&V (holotype), 229a ♂ genitalia, 229b ♀ genitalia.

**Original Combination:** *Arases aurantiaca*

**Type Locality:** "Mexico, Chiapas State, Ochuc"

**Types:** Holotype in MGCL.

Genus ***Electrostrymon*** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 185, 218. Type-species: *Papilio endymion* Fabricius, 1775, Syst. Entomol.: 519, no. 324, by original designation.

= *Angulopsis* K. Johnson, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 41-42, figs. 79, 80C, 80D. Type-species: *Thecla autoclea* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 194; 2(7): pl. 77, figs. 616, 617 (= *Polyommatus hugon* Godart, [1824], in: Ency. méth. 9(Ins.) (2): 640,



- no. 84; synonym), by original designation.  
 = *Rubrostrata* K. Johnson & Kroenlein, 1993  
 Repts. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 34: 19-20, pl. VI, 2, fig. 1; type-species: *Thecla mathewi* Hewitson, 1874, Entomol. mon. Mag. 11(5)(124): 106, by original designation.
475. **Electrostrymon hugon** (Godart, [1824])  
*In*: Ency. méth. 9(Ins.) (2): 640, no. 84.  
**Original Combination:** *Polyommatus Hugon*  
**Type Locality:** Not stated; "Brasil" suggested by E. Doubleday (1847), List Spec. lep. Brit. Mus. 2: 32.  
**Types:** Holotype in MNHP.  
 The identity of this taxon was established by Faynel and Bálint (2004), Bull. Soc. Entomol. Fr. 109(3): 266-267, fig. 3.  
 = *sangala* (Hewitson, 1868)  
 Descr. new Spec. Lycaenidae: 35, no. 75; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 54, figs. 314 ♀ D, 315 ♀ V.  
**Original Combination:** *Thecla Sangala*  
**Type Locality:** "Venezuela"  
**Types:** Lectotype (#Rh1016) in BMNH, designated by K. Johnson (1992), Repts. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 42.  
 = *cyphara* (Hewitson, 1874)  
 Entomol. Mon. Mag. 11(5): 106; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 74, figs. 579 ♂ D, 580 ♂ V.  
**Original Combination:** *Thecla Cyphara*  
**Type Locality:** "Panama"; suggested to be "either Isla Taboga or Ciudad Panamá" by Clench (1967), J. Lepid. Soc. 21(3): 184.  
**Types:** Holotype in BMNH.  
 = *autoclea* (Hewitson, 1877)  
 Ill. diurn. Lepid. Lycaenidae 1(7): 194; 2(7): pl. 77, figs. 616 ♂ D, 617 ♂ V.  
**Original Combination:** *Thecla Autoclea*  
**Type Locality:** "Nicaragua (Chontales)"  
**Types:** Lectotype (#Rh1014) in BMNH, designated by K. Johnson (1992), Repts. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (22) (vol. II): 42.  
 = *callides* (Dyar, 1914)  
 Proc. U. S. Nat. Mus. 47(2050): 151.  
**Original Combination:** *Thecla callides*  
**Type Locality:** "La Chorrera...Trinidad River" [Panama]  
**Types:** Syntypes (#15760) in USNM.  
 Schaus (1920), Entomol. News 31(6): 176, placed this taxon in the synonymy of *sangala*.
476. **Electrostrymon joya** (Dognin, 1895)  
 Annls. Soc. Entomol. Belg. 39(2): 106.  
**Original Combination:** *Thecla Joya*  
**Type Locality:** "Loja et environs" [Ecuador]  
**Types:** Syntypes in BMNH.  
 = *canus* (H. H. Druce, 1907)  
 Proc. Zool. Soc. Lond. 1907(3): 624.  
**Original Combination:** *Thecla canus*  
**Type Locality:** "Mexico: Chilpancingo, Guerrero, 4600 feet"  
**Types:** Holotype in BMNH.  
 = *nubes* (H. H. Druce, 1907)  
 Proc. Zool. Soc. Lond. 1907(3): 625.  
**Original Combination:** *Thecla nubes*  
**Type Locality:** "Tobago I. (Trinidad)"  
**Types:** Holotype in UMO.  
 = *callao* (H. H. Druce, 1907)  
 Proc. Zool. Soc. Lond. 1907(3): 611, pl. 36, fig. 11 ♂ D&V.  
**Original Combination:** *Thecla callao*  
**Type Locality:** "Callao, Peru"  
**Types:** Syntypes in BMNH.  
 = *rugatus* (H. H. Druce, 1907)  
 Proc. Zool. Soc. Lond. 1907(3): 611-612.  
**Original Combination:** *Thecla rugatus*  
**Type Locality:** "Vina, N. W. Peru, 5500 ft."  
**Types:** Syntypes in BMNH.  
 = *bunnirae* (Dyar, 1918)  
 Proc. U. S. Nat. Mus. 54(2239): 336.  
**Original Combination:** *Thecla bunnirae*  
**Type Locality:** "Sierra de Guerrero, Mexico" [Guerrero]  
**Types:** Holotype (#21199) in USNM.  
 Schaus (1920), Entomol. News 31(6): 176, placed this taxon as a synonym of *canus*.  
 = *shargeli* (K. Johnson, [1990])

Insecta Mundi 3(3): 201, figs. 2E ♀ D&V, 3D ♀ genitalia (holotype).

**Original Combination:** *Tergissima shargeli*

**Type Locality:** "Chile, Santiago"

**Types:** Holotype in MNHP.

477. **Electrostrymon angelia** (Hewitson, 1874)

a. **Electrostrymon angelia angelia** (Hewitson, 1874)

Ill. diurn. Lepid. Lycaenidae 1: 162, pl. 63, figs. 439 ♂ D, 440 ♂ V.

**Original Combination:** *Thecla angelia*

**Type Locality:** "Cuba and Jamaica"; lectotype from "Cuba."

**Types:** Lectotype in BMNH, designated by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 68.

Recorded from the United States (Key West, Florida) for the first time by Anderson (1974), J. Lepid. Soc. 28(4): 354, fig. 1, and now widely established in southern Florida.

Genus **Calycopis** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 108, no. 12. Type-species: *Rusticus poeas* Hübner, [1811], Samml. exot. Schmett. 1: pl. [101], figs. 1, 2, 3, 4 (= *Hesperia cecrops* Fabricius, 1793, Entomol. Syst. 3(1): 270, no. 41; synonym), by original designation.

= *Calystryma* W. D. Field, 1967

Proc. U. S. Nat. Mus. 123(3611): 1-2. Type-species: *Calystryma blora* W. D. Field, 1967, Proc. U. S. Nat. Mus. 123(3611): 9-10, no. 3, pl. 1, figs. 5, 6, pl. 2, figs. 5, 6, figs. 3A, 3B, 3C, 3D, 3E, by original designation.

= *Tergissima* K. Johnson, 1988

Insecta Mundi 2(1): 30, figs. 1, 3C, 3H, 4E, 4F, 5C. Type-species: *Tergissima mosconiensis* K. Johnson, 1988, Insecta Mundi 2(1): 34, figs. 1A, 1B, 1C, 1D, 3Ca-b, 3H, 4E (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 567, 588; synonym), by original designation.

= *Femniterra* K. Johnson, 1988

Insecta Mundi 2(1): 36, 38, figs. 2, 3D, 3G, 4A, 4B, 4E, 4F, 4G, 4H, 5D. Type-species: *Femniterra notacastanea* K. Johnson, 1988, Insecta Mundi 2(1): 38-39, figs. 2A, 2B, 2C, 2D, 3D, 3G, 4A, 4G (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 567, 588; synonym), by original designation.

= *Serratofalca* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 14, figs. 6, 29, 30. Type-species: *Thecla cerata* Hewitson, 1877; Ill. diurn. Lepid., Lycaenidae 1(7): 191, no. 374, 2(7): pl. 76, figs. 607-608, by original designation.

= *Klaufera* K. Johnson, 1991

Rep. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 15-16, figs. 7, 31, 32. Type-species: *Thecla pisis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84, no. 175; 3(65): pl. 57, figs. 24, 25, by original designation.

= *Gigantofalca* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 16, figs. 8, 33, 34, 35. Type-species: *Gigantofalca stacya* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 17, figs. 8A, 8B, 33, 34, by original designation.

= *Distissima* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 14. Type-species: *Distissima spenceri* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 18, figs. 9A, 9B, 36, 37, by original designation.

= *Serratoterra* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 19, figs. 10, 41, 42, 43. Type-species: *Serratoterra larsoni* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 20, figs. 10A, 10B, 40, 41 (= *Thecla pisis* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84, no. 175; 3(65): pl. 57, figs. 24, 25; synonym), by original designation.

= *Terminospinissima* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 21, figs. 11, 44, 45. Type-species: *Terminospinissima serratissima* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 22, figs. 11, 44, 45 (= *Thecla cissusa* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 589, 590; synonym), by original designation.

= *Furcivalva* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 22-23, figs. 12, 46, 47. Type-species: *Furcivalva extensa* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 23-24, figs. 12A, 12B, 46, 47, by original designation.

= *Cyanodivida* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 24, figs. 13, 48, 49, 50, 5. Type-species: *Cyanodivida fornoi* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 25, figs. 13A, 13B, 48, 49, by original designation.

= *Morphissima* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 26-27, figs. 14, 52, 53. Type-species: *Morphissima scalpera* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 27, figs. 14B, 14C, 52, 53 (= *Calycopis lebeli* W. D. Field 1967, Proc. U. S. Nat. Mus. 119(3552): 12, figs. 6, 20F, 26, 57, 58, 59, 60; synonym), by original designation.

= *Fieldia* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28, figs. 15, 54, 55. Type-species: *Fieldia yungas* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28-29, figs. 15B, 15C, 54, 55 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 567, 588; synonym), by original designation. Preoccupied by *Fieldia* Niculescu, 1979, Revue vérviet. Hist. Nat. 36(1-3): 3.

= *Kroenleina* K. Johnson, 1991

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 31, figs. 18, 60, 61, 62, 63. Type-species: *Kroenleina panornata* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 32, figs. 18A, 18B, 60, 61, by original designation.

= *Antrissima* K. Johnson, 1991



- Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 33, figs. 19, 64, 65, 66, 67. Type-species: *Antrissima varicolor* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 33-34, figs. 19A, 19B, 64, 65 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 567, 588; synonym), by original designation.
- = *Reversustus* K. Johnson, 1991
- Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 34-35, figs. 20, 68, 69, 70, 71. Type-species: *Thecla puppius* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 84 (footnote), by original designation.
- = *Mercedes* K. Johnson, 1991
- Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 36, figs. 21, 72, 73. Type-species: *Thecla demonassa* Hewitson, 1868, Descr. new Spec. Lycaenidae: 25, no. 53, by original designation.
- = *Argentostratus* K. Johnson, 1991
- Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 37-38, figs. 22, 74, 75. Type-species: *Thecla tamos* Godman & Salvin, 1887, Biol. centr.-amer., Lepid. Rhop. 2(61): 79-80, no. 163, 3(60): pl. 52, figs. 16, 17, by original designation.
- = *Profeldia* K. Johnson, 1992
- Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (23): 12. Type-species: *Fieldia yungas* K. Johnson, 1991, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 28-29, figs. 15B, 15C, 54, 55 (= *Thecla caulonia* Hewitson, 1877, Ill. diurn. Lepid. Lycaenidae 1(7): 188; 2(7): pl. 75, figs. 567, 588; synonym), as a replacement name. Proposed to replace *Fieldia* K. Johnson, 1991, preoccupied (Code Articles 60.3, 67.8).
478. **Calycopis cecrops** (Fabricius, 1793)  
Entomol. Syst. 3(1): 270, no. 41; cited Jones' Icones 6: pl. 21, fig. 2.  
**Original Combination:** *H[esperia]. R[urales]. Cecrops*  
**Type Locality:** "Indis Dom. Drury"; suggested to be "one of the states along the eastern coast of the United States between Virginia and Georgia, and probably the latter" by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19; neotype from "Savannah, Chatham County, Georgia."  
**Types:** Neotype in USNM, designated by Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 88.  
= *poetas* (Hübner, [1811])  
Samml. exot. Schmett. 1: pl. [101], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Rusticus armatus Poetas*  
**Type Locality:** Not stated; suggested to be "Amer. sept. et Centr." by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 71; subsequently suggested to be "one of the states along the eastern coast of the United States between Virginia and Georgia, and probably the latter" by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19.  
**Types:** Location of type(s) not known.  
= *nivnix* (K. Johnson, Eisele & MacPherson, 1990)  
Bull. Allyn Mus. (130): 28-29, figs. 12B, ♀ D&V, 37 ♀ genitalia (holotype)  
**Original Combination:** *Strymon nivnix*  
**Type Locality:** "Cadenta (230A), Mendoza Province, 4-5000 ft." apparently in error. [La Rioja Province, Argentina]  
**Types:** Holotype in MNHP.  
This taxon is a composite; Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 202-203, excluded the genitalia and forewings from the holotype.  
= ⚡"gottschalki" (A. Clark & L. Clark, 1938)  
Proc. Biol. Soc. Wash. 51(1): 3.  
**Original Combination:** *Strymon cecrops* ab. *gottschalki*  
**Type Locality:** "Scout troop 54 Cabin, Fort Lewis Mountain, Roanoke County, Virginia"  
**Types:** "Holotype" (#52256) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., fig. 7 ♂ V.
479. **Calycopis isobeon** (Butler & H. Druce, 1872)  
Cist. Entomol. 1(5): 108; figured by Butler (1873), Lepid. Exot. (13): pl. 57, fig. 2 ♂ D.  
**Original Combination:** *T[olulus]. Isobeon*  
**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.  
**Types:** Lectotype (#Rh913) in BMNH, designated by W. D. Field (1967), Proc. U. S. Nat. Mus. 119(3552): 19-20.  
= *escuintla* (K. Johnson, 1991)  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (21): 32, figs. 18C ♂ genitalia, 62 ♂ D&V, 63 ♀ D&V (holotype).  
**Original Combination:** *Kroenleina escuintla*  
**Type Locality:** "mountains above Escuintla, 700m, sta. #14, Chiapas State, Mexico"  
**Types:** Holotype in CMNH.  
The status of this taxon requires further investigation.
- Genus **Strymon** Hübner, 1818
- Zutr. Samml. exot. Schmett. 1: 22. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, by designation of N. Riley (1922), J. Bombay Nat. Hist. Soc. 28(2): 472. I.C.Z.N. *Opinion 541* placed this name on the *Official List of Generic Names in Zoology* as name no. 1332.  
= ⚡*Calliparus* Scudder, 1872  
4th Ann. Rep. Peabody Acad. Sci. (1871): 51. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, by original designation. A junior objective synonym of *Strymon*.  
= *Callicista* Grote, 1873



Bull. Buffalo Soc. Nat. Sci. 1(3): 178. Type-species: *Callicista ocellifera* Grote, 1873, Bull. Buffalo Soc. Nat. Sci. 1(3): 178-179 (= *Thecla istapa* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(3): 339, no. 46; synonym), by monotypy.

= ‡*Uranotes* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 107, no. 11. Type-species: *Rusticus melinus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121, 122; 22, no. 61, as a replacement name. Proposed to replace *Callipareus* Scudder (1872), erroneously thought preoccupied. A junior objective synonym of *Strymon* Hübner, 1818.

= *Eiseliana* Toledo, 1978

Acta zool. Lilloana 33(1): 80. Type-species: *Eiseliana koehleri* Toledo, 1978, Acta zool. Lilloana 33(1): 80, fig.

= *Heoda* K. Johnson, L. Miller & J. Herrera, 1992

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (23): 5-7. Type-species: *Thecla heodes* H. H. Druce, 1909, Trans. Entomol. Soc. Lond. (4)1909[57](3): 436-437, pl. 11, figs. 10, 11.

melinus group Robbins & Nicolay, 2002

J. Lepid. Soc. 55(3): 97.

#### 480. *Strymon melinus* Hübner, 1818

##### a. *Strymon melinus melinus* Hübner, 1818

Zutr. Samml. exot. Schmett. 1: pl. [22], figs. 121 ♂ D, 122 ♂ V [1813], 22, no. 61 (1818, name given).

**Original Combination:** *Strymon Melinus*

**Type Locality:** "Georgien in Florida"

**Types:** Type(s) probably lost.

*Opinion* 503 placed this name on the *Official List of Specific Names in Zoology* as name no. 1602. This taxon was first called *Rusticus melinus* by Hübner (1808), Erste Zutr. Samml. exot. Schmett.: 5, but this work was suppressed by I.C.Z.N. *Opinion* 789.

= *hyperici* (Boisduval & Le Conte, 1833)

Hist. Lépid. Amér. sept. (10): 90, pl. 28, figs. 1 ♂ D, 2 ♀ D, 3 ♀ V, 4 larva, 5 pupa (1833); (11): pl. 32 [1835]).

**Original Combination:** *Thecla Hyperici*

**Type Locality:** "Géorgie et en Floride?"

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Oberthür (1920), Étud. Lépid. Comp. 17: pl. 505, fig. 4208 ♂ D&V, figured what he considered to be the "type" from the Boisduval collection, now probably at USNM. Calhoun (2004), J. Lepid. Soc. 58(3): 156, discussed the dubious nature of such "types" from the Boisduval collection.

= ‡"youngi" W. D. Field, 1936

J. Entomol. & Zool. 28(2): 25.

**Original Combination:** *Strymon melinus* tr. f. *youngi*

**Type Locality:** "Miami, Florida" [Miami-Dade County]

**Types:** "Holotype" in USNM.

##### b. *Strymon melinus humuli* (T. Harris, 1842)

Rep. Ins. Mass.: 215-216; figured by T. Harris (1862), Ins. injur. Veget. (3rd ed.) Fig. 104 ♂ D.

**Original Combination:** *Thecla Humuli*

**Type Locality:** "Massachusetts" implied from the title of the book; also suggested by W. Comstock and Huntington (1960), J. N. Y. Entomol. Soc. 68(3): 185.

**Types:** Type(s) probably in MCZ.

Layberry *et al.* (1998), Butts. Can.: 147-148, considered this a synonym of *S. m. melinus*.

= ‡"meinersi" Gunder, 1927

Can. Entomol. 59(12): 283-284, no. 9, pl. A, figs. 9 ♀ D, 9a ♀ V ("Holotype").

**Original Combination:** *Strymon melinus* tr. f. *meinersi*

**Type Locality:** "Table Rock, North Carolina" [Burke County]

**Types:** "Holotype" in AMNH.

##### c. *Strymon melinus franki* W. D. Field, 1938

J. Kansas Entomol. Soc. 11(4): 127-129.

**Original Combination:** *Strymon melinus franki*

**Type Locality:** "Lawrence, Kansas" [Douglas County]

**Types:** Holotype in USNM.

##### d. *Strymon melinus setonia* McDunnough, 1927

Can. Entomol. 59(7): 160-161.

**Original Combination:** [*Strymon melinus*] race *setonia*

**Type Locality:** "Seton Lake, Lillooet, B. C." [British Columbia]

**Types:** Holotype (#2502) in CNC.

##### e. *Strymon melinus atrofasciata* McDunnough, 1921

Can. Entomol. 53(2): 47.

**Original Combination:** *Strymon melinus atrofasciata*

**Type Locality:** "Wellington, B. C." [British Columbia]

**Types:** Holotype in CNC.

Species-genus gender conformation is *atrofasciatus*.

##### f. *Strymon melinus pudica* (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. [1]7(12): 172-173.

**Original Combination:** *Strymon melinus* Var. *pudica*

**Type Locality:** "Contra Costa County" [California]

**Types:** Holotype in AMNH.

Species-genus gender conformation is *pudicus*.

481. **Strymon avalona** (W. G. Wright, 1905)

Butts. W. Coast: 62, no. 328; 209, no. 328, pl. 28, figs. 328 ♂ D, 328b ♂ D (lectotype), 328c ♂ V.

**Original Combination:** [*Thecla*] *Avalona*; *Thecla Avalona* n. s.

**Type Locality:** "Catalina Island"; implied to be "Avalon" from the formation of the name. [Los Angeles County, California]

**Types:** Lectotype in CAS (#4316), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 33.

482. **Strymon rufofusca** (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 196; 2(7): pl. 78, figs. 627 ♀ D, 628 ♀ V.

**Original Combination:** *Thecla Rufo-fusca*

**Type Locality:** Not stated.

**Types:** Holotype (#Rh1008) in BMNH.

= *valentina* Berg, 1896

An. Mus. Nac. (Buenos Aires) (2)2[or 5]: 3, fig. 3a.

**Original Combination:** *Thecla (Uranotes) valentina*

**Type Locality:** "Sierra de Córdoba, Córdoba Province" [Argentina]

**Types:** Holotype in MACN.

K. Johnson *et al.* (1990), Bull. Allyn Mus. (130): 21, erected a separate species-group for this and other taxa, and detailed differences between it and *S. rufofusca*.

= *lucaris* Weeks, 1905

Proc. New England Zool. Club 2: 102-103; figured by Weeks (1905), Ill. diurn. Lepid. 1: 42-43, pl. 10, fig. 1 ♂ D&V.

**Original Combination:** *Thecla lucaris*

**Type Locality:** "Bolivia, near Cusilluni"

**Types:** Holotype (#16666) in MCZ.

H. H. Druce (1907), Proc. Zool. Soc. Lond. 1907(3): 623, determined this synonymy.

= *grisea* (Dufrane, 1939)

Bull. Anns. Soc. Entomol. Belg. 79(7/8): 290.

**Original Combination:** *Thecla melinus* [*sic*] *grisea*

**Type Locality:** "Trujillo, Pérou"

**Types:** Holotype in MNHP (de Joannis collection).

= *guanensis* Le Crom & K. Johnson, 1997

Revta. Thec. Colomb. 2(16): 15, text fig. 4 ♀ [not ♂] genitalia, photoplate XIII(c), fig. B ♀ D&V (holotype).

**Original Combination:** *Strymon guanensis*

**Type Locality:** "Colombia, Dept. Narino, El Patia"

**Types:** Holotype in ICNB.

= *nigriplaga* (Dufrane, 1939)

Bull. Anns. Soc. Entomol. Belg. 79(7/8): 290.

**Original Combination:** [*Thecla melinus grisea*] ab. *nigriplaga*

**Type Locality:** "Trujillo, Pérou"

**Types:** "Holotype" in MNHP (de Joannis collection).

*albata* group Robbins & Nicolay, 2002

J. Lepid. Soc. 55(3): 97.

483. **Strymon albata** (C. Felder & R. Felder, 1865)

Reise Novara (2): 261-262, no. 310, pl. 32, figs. 17 ♀ D, 18 ♀ V.

**Original Combination:** *Thecla Albata*

**Type Locality:** "Venezuela...Nova Granada: Bogotá"; defined as "Venezuela" by Godman and Salvin (1887), Biol. centr.-amer., Lepid. Rhop. 2(61): 94.

**Types:** Syntypes in BMNH.

= *sedecia* (Hewitson, 1874)

Entomol. Mon. Mag. 11(5): 105; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(6): pl. 72, figs. 548 ♂ D, 549 ♂ V (as *Thecla polibetes*), and (1874), 2(7): pl. 78, figs. 637 ♂ D, 638 ♂ V.

**Original Combination:** *Thecla Sedecia*

**Type Locality:** "Mexico"; defined as "Mazatlán, Sinaloa, Mexico" by Clench (1967), J. Lepid. Soc. 21(3): 183.

**Types:** Holotype in BMNH.

484. **Strymon alea** (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 95, no. 205; 3(66): pl. 58, figs. 10 ♂ D, 11 ♂ V.

**Original Combination:** *Thecla alea*

**Type Locality:** "Mexico, Tres Marias islands...Jalapa" [Tres Marias Islands, Nayarit; Jalapa, Veracruz]

**Types:** Holotype in BMNH.

= *laceyi* (W. Barnes & McDunnough, 1910)

Can. Entomol. 42(11): 365-366.

**Original Combination:** *Callicista Laceyi*

**Type Locality:** "Del Rio, Texas"; suggested to be "on the Devils River north of Del Rio in Val Verde Co." by R. Kendall and C. Kendall (1971), J. Lepid. Soc. 25(1): 38.

- Types:** Holotype in USNM; figured by P. Ehrlich and A. Ehrlich (1961), How Know Butts.: fig. 422 ♀ V.
485. **Strymon bebrycia** (Hewitson, 1868)  
 Descr. new Spec. Lycaenidae: 13, no. 30; figured by Hewitson (1869), Ill. diurn. Lepid. Lycaenidae 2(4): pl. 50, figs. 258, 259.  
**Original Combination:** *Thecla Bebrycia*  
**Type Locality:** "Mexico"  
**Types:** Lectotype (#Rh1020) in BMNH, designated by K. Johnson and Salazar (1993), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (26): 11, fig. 2B, photoplate II, H.  
 = *chonida* (Hewitson, 1874)  
 Entomol. Mon. Mag. 11(5)9124: 105; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 1(7): 197; 2(7): pl. 78, figs. 635, 636.  
**Original Combination:** *Thecla Chonida*  
**Type Locality:** "Mexico"  
**Types:** Holotype in BMNH.  
 = *buchholzi* H. Freeman, 1950  
 Field & Lab. 18(1): 12.  
**Original Combination:** *Strymon buchholzi*  
**Type Locality:** "Pharr, Texas" [Hidalgo County]  
**Types:** Holotype in AMNH.
- yojoa group Robbins & Nicolay, 2002  
 J. Lepid. Soc. 55(3): 97.
486. **Strymon yojoa** (Reakirt, [1867])  
 Proc. Acad. Nat. Sci. Philad. 18(3): 339, no. 45.  
**Original Combination:** *Thecla yojoa*  
**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]  
**Types:** Location of type(s) not known, not in FMNH.  
 = *beroea* (Hewitson, 1868)  
 Descr. new Spec. Lycaenidae: 14, no. 32.  
**Original Combination:** *Thecla Beroea*  
**Type Locality:** "Mexico"  
**Types:** Lectotype (#266891/Rh1034) in BMNH, designated by Robbins and Lamas (2002), Revta. bras. Zool. 19(supl. 1): 210.  
 Hewitson (1874), Ill. diurn. Lepid. Lycaenidae 1(6): 158, determined this synonymy.
- mulucha group Robbins & Nicolay, 2002  
 J. Lepid. Soc. 55(3): 97-98.
487. **Strymon cestri** (Reakirt, [1867])  
 Proc. Acad. Nat. Sci. Philad. 18(3): 338, no. 43.  
**Original Combination:** *Thecla cestri*  
**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]  
**Types:** Location of type(s) not known, not in FMNH.  
 = *crosssoea* (Hewitson, 1874)  
 Ill. diurn. Lepid. Lycaenidae 1(6): 158; 2(6): pl. 62, fig. 427.  
**Original Combination:** *Thecla Crosssoea*  
**Type Locality:** not stated.  
**Types:** Holotype in BMNH.  
 = *cydia* (Hewitson, 1874)  
 Ill. diurn. Lepid. Lycaenidae 1(6): 160; 2(6): pl. 63, figs. 433 ♀ D, 434 ♀ V.  
**Original Combination:** *Thecla Cydia*  
**Type Locality:** "Rio de Janeiro" [Rio de Janeiro, Brazil]  
**Types:** Holotype in BMNH.  
 = *chamiensis* Salazar, Vélez & K. Johnson, 1997  
 Revta. Thec. Colomb. 2(16): 8-9, text fig. 3 ♂ & ♀ genitalia, photoplate XII, fig. B ♂ D&V (holotype).  
**Original Combination:** *Strymon chamiensis*  
**Type Locality:** "Colombia, Dept. Choco, Guarato"  
**Types:** Holotype in MGCL.
- martialis group Robbins & Nicolay, 2002  
 J. Lepid. Soc. 55(3): 98.
488. **Strymon martialis** (Herrich-Schäffer, 1865)  
 Corresp.-Bl. zoo.-min. Ver. Regensburg 18(11/12): 164, no. 2.  
**Original Combination:** [*Thecla*] *martialis*  
**Type Locality:** "Cuba" implied from the title of the work.  
**Types:** Syntype (#7239) in ANSP.



\*489. **Strymon acis** (Drury, 1773)

Illustr. Nat. Hist. 1: 2: pl. 1, fig. 2 ♂ D, 2a ♂ V (1770); 2: index (1773, name given).

**Original Combination:** *Papilio Acis*

**Type Locality:** "New York"; suggested to be "Lesser Antilles...Antigua" by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 62-63.

**Types:** Type(s) lost.

a. **Strymon acis bartrami** (W. Comstock & Huntington, 1943)

Ann. N. Y. Acad. Sci. 45(2): 65, pl. 1, fig. 2 ♀ V.

**Original Combination:** *Strymon acis bartrami*

**Type Locality:** "Florida...Miami" [Miami-Dade County]

**Types:** Holotype in AMNH.

istapa group Robbins & Nicolay, 2002

J. Lepid. Soc. 55(3): 97.

490. **Strymon bazochii** (Godart, [1824])a. **Strymon bazochii bazochii** (Godart, [1824])

Ency. méth. 9(Ins.) (2): (612), 681-682, no. 203.

**Original Combination:** *Polyommatus Bazochii*

**Type Locality:** "brésilien"

**Types:** Holotype in MNHP; figured by K. Johnson (1991), J. Lepid. Soc. 45(2): fig. 17.

Robbins (1989), in: Ferris, Mem. Lepid. Soc. (3): 32, stated "at least two species are presently lumped under *bazochii*, and it is not clear if *bazochii* is the species that has been collected in Texas."

= *thius* (Geyer, 1832)

In: Hübner, Zutr. Samml. exot. Schmett. 4: pl. [128], figs. 743 ♂ D, 744 ♂ V [1826]; 33, no. 372, (1832, name given).

**Original Combination:** *Hyrus Thius*

**Type Locality:** "Brasilien"

**Types:** Location of type(s) not known, probably lost.

= *agra* (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 30, no. 63; figured by Hewitson (1873), Ill. diurn. Lepid. Lycaenidae 2(5): pl. 58, figs. 369 ♂ D, 370 ♂ V.

**Original Combination:** *Thecla Agra*

**Type Locality:** "Amazon"

**Types:** Holotype in BMNH.

This synonymy was suggested by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 88.

= *infrequens* Weeks, 1901

Entomol. News 12(9): 265-266; 13(8): pl. 13 ♂ D&V.

**Original Combination:** *Thecla infrequens*

**Type Locality:** "Bolivia, near Cusilluni"

**Types:** Type(s) possibly in MCZ.

491. **Strymon istapa** (Reakirt, [1867])a. **Strymon istapa modesta** (Maynard, 1873)

Am. Nat. 7(3): 177.

**Original Combination:** *Lycaena modesta*

**Type Locality:** "Key West" [Monroe County, Florida]

**Types:** Type(s) may be in MCZ.

= *ocellifera* (Grote, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(3): 178-179.

**Original Combination:** *Callicista ocellifera*

**Type Locality:** "near Aurora, about 17 miles southward from Buffalo, on the Buffalo, New York and Philadelphia Railroad" in error or transported by rail from Florida. [Cayuga County, New York]

**Types:** Holotype in AMNH.

b. **Strymon istapa istapa** (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 339, no. 46.

**Original Combination:** *Thecla istapa*

**Type Locality:** "Mexico, near Vera Cruz" [Veracruz]

**Types:** Location of type(s) not known, not in FMNH.

c. **Strymon istapa clenchi** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 508-509, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.

**Original Combination:** *Strymon columella clenchi*

**Type Locality:** "California: Riverside County; Blythe"

**Types:** Holotype in LACM.

492. **Strymon limenia** (Hewitson, 1868)

Descr. new Spec. Lycaenidae: 32-33, no. 69; figured by Hewitson [1873], Ill. diurn. Lepid. Lycaenidae 2(6): pl. 63, figs. 431 ♀ D, 432 ♀ V.

**Original Combination:** *Thecla Limenia*

**Type Locality:** "Jamaica"

**Types:** Holotype in BMNH.

Recorded from the United States (Key West, Florida) for the first time by Anderson (1974), J. Lepid. Soc. 28(4): 355-356, fig. 2; now an irregular resident in southern Florida, recorded as recently as 2005 (Calhoun pers. comm. 2006).

serapio group Robbins & Nicolay, 2002  
J. Lepid. Soc. 55(3): 99.

493. **Strymon serapio** (Godman & Salvin, 1887)  
Biol. centr.-amer., Lepid. Rhop. 2(61): 93, no. 200; 3(66): pl. 58, figs. 8 ♂ D, 9 ♂ V.  
**Original Combination:** *Thecla serapio*  
**Type Locality:** "Mexico, Jalapa...Panama, David...Chiriqui"; specimen figured is from "David, Panama."  
**Types:** Holotype in BMNH.  
Records of this species from Big Bend National Park, Brewster County, Texas, apparently represent an undescribed taxon. Therefore, the putative neotropical synonymy for *S. serapio* proposed by Robbins (2004), in: Lamas (Ed.), Atlas of Neotrop. Lepid. Chklt: Part 4A: 131, has not been included.

#### Genus **Tmolus** Hübner, [1819]

Verz. bekannt. Schmett. (5): 76. Type-species: *Papilio echion* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 788, no. 224, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 285, no. 1061.

- \*494. **Tmolus echion** (Linnaeus, 1767)  
Syst. Nat. (ed. 12) 1(2): 788, no. 224, cited Kleeman (1761), Beytr. Nat. Ins. 1: pl. 7, figs. 3, 4.  
**Original Combination:** *P[apilio]*. *P[lebejus Ruralis]*. *Echion*  
**Type Locality:** "America"  
**Types:** Type is the specimen figured by Kleeman (1761), *ibid.*; it is probably lost.  
= *crotus* (Stoll, 1780)  
Uitl. Kapellen 4(28): 85, pl. 333, figs. G ♂ D, H ♂ V; (34): 248 (index).  
**Original Combination:** *Pap[ilio]*. *Pleb[ejus] Rural[is]*. *Crotus*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.  
= *labes* (H. H. Druce, 1907)  
Proc. Zool. Soc. Lond. 1907(3): 602, pl. 36, fig. 6 ♂ D&V.  
**Original Combination:** *Thecla labes*  
**Type Locality:** "Canapo, Trinidad"  
**Types:** Holotype in BMNH.  
= *sanctissima* (Jørgensen, 1935)  
An. Mus. argentino Cienc. Nat. "Bernardino Rivadavia" 38(Entomologia 151): 93-94, pl. 2, fig. 6 ♂ D (holotype).  
**Original Combination:** *Thecla sanctissima*  
**Type Locality:** "Santísima Trinidad, cerca de Asunción, Paraguay"  
**Types:** Holotype (# 32.703) in MACN.  
a. **Tmolus echion echiolus** (Draudt, 1920)  
In: Seitz, Grossschmett. Erde 5(283): 786; (260): pl. 156f, fig. [4] ♂ V.  
**Original Combination:** [*Thecla echion*] form *echiolus*  
**Type Locality:** "Mexiko"  
**Types:** Location of type(s) not known.

#### Genus **Ministrymon** Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 179, 196. Type-species: *Thecla leda* W. H. Edwards, 1882, Papilio 2(2): 23-24, by original designation.

phrutus group K. Johnson & L. Miller, 1991  
Acta Entomol. Chilena 16(2): 185.

495. **Ministrymon leda** (W. H. Edwards, 1882)  
Papilio 2(2): 23-24.  
**Original Combination:** *Thecla Leda*  
**Type Locality:** "near Prescott" [Yavapai County, Arizona]  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 51, fig. 13 ♂ D&V.  
= *ines* (W. H. Edwards, 1882)  
Papilio 2(2): 25-26.  
**Original Combination:** *Thecla Ines*  
**Type Locality:** "southern Arizona"; defined as "vicinity of Tucson, Pima County, Arizona" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 52.  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 53, fig. 14 ♂ D&V. W. Holland (1931), Butt. Book (rev. ed.): 240, pl. 29, fig. 35 ♀ [not ♂] D, figured what he called a "type." Brown determined that this specimen is a "paratype" in his initial entry but did not identify it individually later in the text; if it can be identified, it should

be considered the lectotype.

496. **Ministrymon clytie** (W. H. Edwards, 1877)

Field & Forest 3(5): 88-89.

**Original Combination:** *Thecla Clytie*

**Type Locality:** "San Antonio" [Bexar County, Texas]

**Types:** Holotype in CMNH, figured by W. Holland (1898), Butt. Book: pl. 29, fig. 6 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 54, fig. 15 ♀ D&V.

= *maevia* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(61): 89, no. 190; 3(66): pl. 58, figs. 3 ♂ D, 4 ♂ V.

**Original Combination:** *Thecla maevia*

**Type Locality:** "Mexico, Acapulco...Cordova...Guatemala, Polochic valley...San Geronimo...Costa Rica, Punta Arenas"; a specimen from "San Geronimo" was figured.

**Types:** Syntypes in BMNH.

= *daplisus* (K. Johnson & Salazar, 1993)

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (26): 4-5, pl. 2, fig. 3D ♂ D&V (holotype), fig. 1D ♂ genitalia.

**Original Combination:** *Strymon daplisus*

**Type Locality:** "Venezuela"

**Types:** Holotype in BMNH.

azia group K. Johnson & L. Miller, 1991

Acta Entomol. Chilena 16(2): 183, 185.

497. **Ministrymon azia** (Hewitson, 1873) (1860)

Ill. diurn. Lepid. Lycaenidae 1(5): 144; 2(5): pl. 57, 257 ♂ D, 358 ♂ V.

**Original Combination:** *Thecla Azia*

**Type Locality:** "Mexico"

**Types:** Lectotype (#79-69) in BMNH, designated by Lamas (2002), Revta. bras. Zool. 19(supl. 1): 208.

= *guacanagari* (Wallengren, 1860)

Wien. entomol. Monatschr. 4(2): 37-38.

**Original Combination:** *Thecla guacanagari*

**Type Locality:** "Puna" [Argentina and Chile]

**Types:** Lectotype in NHRS, designated by Lamas (2002), Revta. bras. Zool. 19(supl. 1): 208.

Lamas (2002), *ibid.*, determined this synonymy. Robbins and Lamas (2004), Bull. Zool. Nomen. 61(2): 98-99, petitioned the I. C. Z. N. to conserve the name *azia*; prevailing usage is maintained until a ruling is given (Code Article 82).

= *nipona* (Hewitson, 1877)

Ill. diurn. Lepid. Lycaenidae 1(7): 204; 2(7): pl. 81, figs. 673 ♂ D, 674 ♂ V, 675 ♀ D.

**Original Combination:** *Thecla Nipona*

**Type Locality:** "Brazil"

**Types:** Holotype (#79-69) in BMNH.

H. H. Druce (1907), Proc. Zool. Soc. Lond. 1907(3): 623, determined this synonymy.

= *brocela* (Dyar, 1913)

Proc. U. S. Nat. Mus. 45(2006): 637.

**Original Combination:** *Thecla brocela*

**Type Locality:** "Cotahuasi, 9,000 feet" [Peru]

**Types:** Holotype (#15622) in USNM.

= *quebradivaga* K. Johnson & L. Miller, 1991

Acta Entomol. Chil. 16(2): 186-187, figs. 1 ♂ D&V, 1A ♀ genitalia, 2 ♂ genitalia, 3A ♂ D, 3B ♂ V (holotype), 5 ♀ D&V.

**Original Combination:** *Ministrymon quebradivaga*

**Type Locality:** "Codpa, hamlet in Quebrada Vitor...altitude 2,109 m" [Chile]

**Types:** Holotype in MGCL.

= *hernandezii* Schwartz & K. Johnson, 1992

Carib. J. Sci. 28(3/4): 153, figs. 3 ♂ D&V, 4A ♂ genitalia (holotype).

**Original Combination:** *Ministrymon hernandezii*

**Type Locality:** "Cuba: Provincia de Pinar del Rio: 5.5 km NW Niceto Perez (formerly Rancho Mundito), 450 m"

**Types:** Holotype in MNHP.

= *grumus* (K. Johnson & Kroenlein, 1993)

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (34): 39, pl. VI, 4E, fig. 7.

**Original Combination:** *Electrostrymon grumus*

**Type Locality:** "Trinidad-Tobago, Trinidad, Arima Valley"

**Types:** Holotype in AMNH.

Genus **Strephonota** K. Johnson, Austin, Le Crom & Salazar, 1997

Revta. Thec. colomb. 1(1): 5, text figs. 2A, 2B, photoplate I, fig. A. Type-species: *Thecla strephon occidentalis* Lathy, 1926, Ann. Mag. Nat. Hist. (9)17(97): 44, by original designation. This name was mentioned by Salazar (1995), Col. amaz. 8(1): 46, without a description; a *nomen nudum*.

= *Zigirina* K. Johnson, Austin, Le Crom & Salazar, 1997

Revta. Thec. colomb. 1(1): 9, text fig. 3, photoplate I, fig. B. Type-species: *Thecla zigira* Hewitson, 1869, Ill. diurn. Lepid. Lycaenidae



- 1(4): 124, no. 196; 2(4): pl. 49, figs. 250, 251 (= *Hesperia agrippa* Fabricius, 1793, Entomol. Syst. 3(1): 259, no. 3; synonym), by original designation.
- = *Treboniana* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 10, text fig. 4, photoplate I, fig. C. Type-species: *Thecla trebonia* Hewitson, 1870, Equatorial Lepid. Buckley (4): 63-64, no. 114, by original designation.
  - = *Serratonotes* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 11, text fig. 5, photoplate I, fig. D. Type-species: *Thecla porphyritis* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 593, pl. 35, fig. 2, by original designation.
  - = *Letizia* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 12, text fig. 6, photoplate I, fig. E. Type-species: *Thecla phoster* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 597, pl. 35, fig. 8 (= *Papilio cyllaris* Herbst, 1800, in: Jablonsky, Natursyst. Ins. Schmett. 10: 297, pl. 291, figs. 3, 4; synonym), by original designation.
  - = *Robustana* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 12, text fig. 7, photoplate II, fig. A. Type-species: *Robustana prima* K. Johnson, Austin, Le Crom & Salazar, 1997, Revta Thec. colomb. 1(1): 52 (= *Thecla parvipuncta* Lathy (1926), Ann. Mag. Nat. Hist. (9)17(97): 41; synonym), by original designation.
  - = *Diminutina* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 13, text fig. 8, photoplate I, fig. F. Type-species: *Thecla tyriam* H. H. Druce, 1907, Proc. Zool. Soc. Lond. 1907(3): 595, pl. 35, fig. 5, by original designation.
  - = *Dindymnotes* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 14, text fig. 9, photoplate I, fig. G. Type-species: *Papilio dindymus* Cramer, 1775, Utitl. Kapellen 1(3): 73; (4): pl. 46, F, G; (8): 152 (index) (= *Papilio sphinx* Fabricius, 1775, Syst. Entomol.: 530, no. 326; synonym), by original designation.
  - = *Sydranota* K. Johnson, Austin, Le Crom & Salazar, 1997  
Revta. Thec. colomb. 1(1): 16, text fig. 11, photoplate I, fig. I. Type-species: *Thecla sydra* Hewitson, 1867, Ill. diurn. Lepid. Lycaenidae: 1(3): 108, no. 144; 2(3): pl. 39, figs. 128, 129; pl. 41, fig. 145, by original designation.
498. **Strephonota tephraeus** (Geyer, 1837)  
In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [165], figs. 959 ♂ D, 960 ♂ V [1836]; 39, no. 480 (1837, name given).  
**Original Combination:** *Bithys Tephraeus*  
**Type Locality:** Not stated; “?(Venezuela)” suggested by W. F. Kirby (1912), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett.: 15, no. 109.  
**Types:** Location of type(s) not known, probably lost.  
Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 19, pl. 1, figs. 6a, 6b.
- = *faventia* (Hewitson, 1867)  
Ill. diurn. Lepid. Lycaenidae 1(3): 106; 2(3): pl. 43, figs. 172 ♂ D, 173 ♂ V.  
**Original Combination:** *Thecla Faventia*  
**Type Locality:** “Venezuela”  
**Types:** Holotype in BMNH.
  - = *villia* (Hewitson, 1869)  
Ill. diurn. Lepid. Lycaenidae 1(4): 126; 2(4): pl. 51, 272 ♀ D, 273 ♀ V.  
**Original Combination:** *Thecla Villia*  
**Type Locality:** “Amazon” [Brazil]  
**Types:** Holotype in BMNH.
  - = *nippia* (Dyar, 1918)  
Proc. U. S. Nat. Mus. 54(2239): 337.  
**Original Combination:** *Thecla nippia*  
**Type Locality:** “Sierra de Guerrero, Mexico” [Guerrero]  
**Types:** Holotype (#21201) in USNM.

#### Genus *Oenomaus* Hübner, [1819]

Verz. bekannt. Schmett. (5): 76. Type-species: *Papilio ortygnus* Cramer, 1779, Utitl. Kapellen 3(21): 84, pl. 243, fig. B ♂ V; (24): 176 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 231, no. 765.

‡*Draudtiana* Kesselring & Ebert, [1982]

Revta. nordest. Biologia 2(1/2): 112. Type-species: *Thecla atena* Hewitson, 1867, Ill. exot. Butts. 4(61): [92], pl. 36, fig. 93, pl. 37, fig. 101, by original designation. This name was listed without a description; a *nomen nudum*.

499. **Oenomaus ortygnus** (Cramer, 1779)  
Utitl. Kapellen 3(21): 84, pl. 243, fig. B ♂ V; (24): 176 (index).  
**Original Combination:** *Pap[ilio]. Pleb[ejus]. Rur[alis]. Ortygnus*  
**Type Locality:** “Surinamen” “Suriname”  
**Types:** Location of type(s) not known; probably lost.
- = *lauta* (Draudt, 1918)  
In: Seitz, Grossschmett. Erde 5(281): 768; (268):, pl. 152a, figs. [5] ♂ D, [6] ♂ V.  
**Original Combination:** [*Thecla ortygnus*] form *lauta*  
**Type Locality:** “Steinwüsten von west-Mexiko (Guerrero)”  
**Types:** Location of type(s) not known.

Genus *Parrhasius* Hübner, [1819]

Verz. bekannt. Schmett. (5): 79. Type-species: *Papilio polibetes* Stoll, 1781, Uittl. Kapellen 4(29): 98-99, pl. 341, figs. B, C; (34): 251 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. Boston 10(2): 242, no. 815.

= *Eupsyche* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 112, no. 14. Type-species: *Thecla m-album* Boisduval & Le Conte, [1833], Hist. Lépid. Amér. sept. (9): 86-87; (10): pl. 26, figs. 1-5, by original designation.

500. *Parrhasius m-album* (Boisduval & Le Conte, [1833]) (1793)

Hist. Lépid. Amér. sept. (9): 86-87; (10): pl. 26, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5 pupa.

**Original Combination:** *T[hecla]*. *M-Album*

**Type Locality:** "Géorgie"

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89, established *Thecla m-album* Boisduval & Le Conte, [1833], as a *nomen protectum* (Code Article 23.9.2).

= *euripides* (Fabricius, 1793)

Entomol. Syst. 3(1): 267, no. 32; cited Jones' Icones 6: pl. 13, fig. 4.

**Original Combination:** *H[esperia]*. *R[urales]*. *Euripides*

**Type Locality:** "Indiis Dom. Drury"

**Types:** Location of type(s) not known; probably lost.

Robbins and Lamas (2006), J. Lepid. Soc. 60(2): 89, established *Hesperia euripides* Fabricius, 1793, as a *nomen oblitum* (Code Article 23.9.2).

= *psyche* (Boisduval & Le Conte, [1833])

Hist. Lépid. Amér. sept. (9): 88-89; (10): pl. 27, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5, pupa.

**Original Combination:** [*Thecla*] *Psyche*

**Type Locality:** "plusieurs parties des États-Unis, sur-tout en Géorgie"

**Types:** Described, at least in part, from a John Abbot drawing. Oberthür (1920), Étud. Lépid. Comp. 17: 15, suggested that the types are lost.

Genus *Hypostrymon* Clench, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 182, 214. Type-species: *Thecla critola* Hewitson, 1874, Entomol. Mon. Mag. 11(5): 105-106, by original designation.

501. *Hypostrymon critola* (Hewitson, 1874)

Entomol. Mon. Mag. 11(5): 105-106; figured by Hewitson (1877), Ill. diurn. Lepid. Lycaenidae 2(7): pl. 78, figs. 633 ♂ D, 634 ♂ V.

**Original Combination:** *Thecla Critola*

**Type Locality:** "Mexico"; defined as "Guaymas, Sonora, Mexico" by Clench (1967), J. Lepid. Soc. 21(3): 184.

**Types:** Holotype in BMNH.

= *festata* (Weeks, 1891)

Entomol. News 2(6): 102-103; figured by Weeks (1900), Proc. New Engl. Zool. Club 2: pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V, and (1905), Ill. diurn. Lepid. 1: pl. 1, figs. 1 ♂ D&V, 2 ♀ D&V.

**Original Combination:** *Hypolycaena festata*

**Type Locality:** "Lower California...near San José del Cabo, at extreme end of the cape" [Baja California Sur, Mexico]

**Types:** Holotype (#16674) in MCZ.

= *adeces* Clench, 1975

Bull. Allyn Mus. (25): 5-6.

**Original Combination:** *Hypostrymon adeces*

**Type Locality:** "Comala, 2100 ft., Colima, Mexico"

**Types:** Holotype in MGCL.

= *margaretae* Clench, 1975

Bull. Allyn Mus. (25): 6-7.

**Original Combination:** *Hypostrymon margaretae*

**Type Locality:** "Urias, 2 mi S Mazatlán, Sinaloa, Mexico"

**Types:** Holotype in CMNH.

†"ines" Scott, 1986

Butts. N. Am.: 381, no. 353.

**Original Combination:** [*Hypostrymon critola*] spring form *ines*

**Types:** Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Erora* Scudder, 1872

4th Ann. Rep. Peabody Acad. Sci. (1871): 53. Type-species: *Thecla laeta* W. H. Edwards, 1862, Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55-56, no. 3, by original designation.

= *Androcona* K. Johnson, Eisele & MacPherson, 1993

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 7. Type-species: *Thecla muridosca* Dyar, 1918, Proc. U. S. Nat. Mus. 54(2239): 337, by original designation.

- = *Sarracenota* K. Johnson, Eisele & MacPherson, 1993  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 9. Type-species: *Thecla opisena* H. H. Druce, 1912, Entomol. Mon. Mag. 48(577): 131, pl 10, fig. 3, by original designation.
- = *Necmitoura* K. Johnson, Eisele & MacPherson, 1993  
Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 10. Type-species: *Necmitoura marcusa* K. Johnson, Eisele & MacPherson, 1993, Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (39): 10, photoplate IX, fig. J (= *Thecla senta* Draudt, 1918, in: Seitz, Grossschmett. Erde 5(283): 783; synonymy), by original designation.
502. ***Erora laeta*** (W. H. Edwards, 1862)  
Proc. Acad. Nat. Sci. Philad. 14(1/2): 54, 55-56, no. 3; figured by W. H. Edwards (1869), Butts. N. Am. [1](3): pl. Thecla 1, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Thecla laeta*  
**Type Locality:** "near London" [Ontario]  
**Types:** Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(1): 74, fig. 25 ♂ D&V, and Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): 74, figs. 21 ♂ D, 22 ♂ V.  
= *clothilde* (W. H. Edwards, 1863)  
Proc. Entomol. Soc. Philad. 2[1]: 14, 15, no. 2.  
**Original Combination:** *Thecla Clothilde*  
**Type Locality:** "near Quebec"; suggested to be "probably at Cap Rouge" by Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): 306.  
**Types:** Type(s) lost or destroyed.
- \*503. ***Erora quaderna*** (Hewitson, 1868)  
Descr. new Spec. Lycaenidae: 35-36, no. 76; figured by Hewitson (1878), Ill. diurn. Lepid. Lycaenidae 2(8): pl. 83, figs. 703 ♂ D, 704 ♂ V.  
**Original Combination:** *Thecla Quaderna*  
**Type Locality:** "Mexico"; defined as "Tancitiro, Michoacan, Mexico" by Clench (1943), J. N. Y. Entomol. Soc. 51(3): 223.  
**Types:** Holotype in BMNH.  
= *attalion* (Godman & Salvin, 1887)  
Biol. centr.-amer., Lepid. Rhop. 2(60): 60-61, no. 114; 3(63): pl. 55, figs. 19 ♂ D, 20 ♂ V.  
**Original Combination:** *Thecla attalion*  
**Type Locality:** "Mexico, Orizaba...Veracruz"  
**Types:** Holotype in BMNH.
- a. ***Erora quaderna sanfordi*** dos Passos, 1940  
Am. Mus. Novit. (1052): 1-2.  
**Original Combination:** *Erora laeta sanfordi*  
**Type Locality:** "White Mts., Arizona, 8000 feet"  
**Types:** Holotype in AMNH; figured by Klots and dos Passos [1982], J. N. Y. Entomol. Soc. 89(4): figs. 23 ♂ D, 24 ♂ V.

#### Subfamily **Polyommatae** Swainson, 1827

Phil. Mag. (2) 1(3): 187 (as "Polyommatae"). Type-genus: *Polyommatus* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(Tab.): 185, no. 474, 200. I.C.Z.N. *Opinion* 270 placed *Polyommatus* on the *Official List of Generic Names in Zoology* as name no. 689.

#### Tribe **Polyommatae** Swainson, 1827

#### Genus **Lampides** Hübner, [1819]

Verz. bekannt. Schmett. (5): 70. Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no. 226, by designation of Grote (1873), Bull. Buffalo Soc. Nat. Sci. 1(3): 179.

- = *Cosmolyce* Toxopeus, 1927  
Tijdschr. Entomol. 70(3/4): 268 (nota). Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no. 226, by monotypy. A junior objective synonym of *Lampides* Hübner, [1819].
- = *Lampidella* Hemming, 1933  
Entomol. 66(10)[845]: 224. Type-species: *Papilio boeticus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 789, no. 226, by original designation. A junior objective synonym of *Lampides* Hübner, [1819].

504. ***Lampides boeticus*** (Linnaeus, 1767)  
Syst. Nat. (ed. 12) 1(2): 789, no. 226.  
**Original Combination:** *P[apilio]*. *P[lebejus Ruralis]*. *Boeticus*  
**Type Locality:** "Barbarie" [Algeria]  
**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 304.  
The entirely Old World synonymy for this species was provided by Lamas (2004g), in: Lamas, Atlas of Neotrop. Lepid. Chklt. Part 4A: 138.

#### Genus **Leptotes** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 124, no. 28. Type-species: *Lycaena theonius* Lucas, 1856, in: Sagra, Hist. Cuba 7(2): 611-612, pl. Art. 16, figs. 8,



8A, 8B (= *Papilio cassius* Cramer, 1775, Uitl. Kapellen 1(2): 36, pl. 23, figs. C, D; (8): 152 (index); subspecies), by original designation.

- = *Cylyrius* Butler, [1987]  
Proc. Zool. Soc. Lond. 1896(4): 830. Type-species: *Polyommatus webbianus* Brullé, 1840, in: Webb and Berthelot, Canaries (Ins.): 93, pl. 4, figs. 1, 1A, by original designation.
- = *Syntarucus* Butler, [1901]  
Proc. Zool. Soc. Lond. 1900(4): 929. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235; synonym), by monotypy.
- = *Syntarucoides* Kaye, 1904  
Trans. Entomol. Soc. Lond. (4)1904[52](2): 190. Type-species: *Papilio cassius* Cramer, 1775, Uitl. Kapellen 1(2): 36, pl. 23, figs. C, D, by original designation.
- = ‡*Langia* Tutt, [1906]  
Nat. Hist. Brit. Butts. 1(12): 314. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 235; synonym), by original designation. Preoccupied by *Langia* Moore, 1872, Proc. Zool. Soc. Lond. 1872: 567, and a junior objective synonym of *Syntarucus* Butler, [1901].
- = ‡*Raywardia* Tutt, [1908]  
Nat. Hist. Brit. Butts. 2(25): 484. Type-species: *Papilio telicanus* Lang, 1789, Verz. Schmett. Gegend. Augsburg (2nd ed.): 47 (= *Papilio pirithous* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 790, no. 23; synonym), as a replacement name. Proposed to replace *Langia* Tutt, [1906], preoccupied (Code Articles 60.3, 67.8). A junior objective synonym of *Syntarucus* Butler, [1901].

*cassius* group, Bálint & K. Johnson, 1995

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 44: 4-5, 16.

\*505. **Leptotes cassius** (Cramer, 1775)

Uitl. Kapellen 1(2): 36, pl. 23, figs. C ♀ D, D ♀ V; (8): 152 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Rural[is]. Cassius*

**Type Locality:** "Suriname" "Surinam"

**Types:** Type(s) probably lost.

a. **Leptotes cassius theonus** (Lucas, 1857)

In: Sagra, Hist. Cuba 7(2): 611-612, pl. Art. 16, figs. 8 ♂ D, 8a ♂ V, 8b ♀ D.

**Original Combination:** *Lycaena Theonus*

**Type Locality:** "l'île de Cuba"

**Types:** Type(s) probably in MNHP.

= *floridensis* (Morrison, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(4): 187-188.

**Original Combination:** *Lycaena cassius* var. *floridensis*

**Type Locality:** "Key West, Florida" [Monroe County]

**Types:** Syntype (#25845) in MCZ, other syntypes may be in USNM. W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 107, noted that a syntype is in the CMNH.

b. **Leptotes cassius cassidula** (Boisduval, 1870)

Consid. Lépid. Guat.: 16-17.

**Original Combination:** *Lycaena Cassidula*

**Type Locality:** "Honduras"

**Types:** Type(s) may be in BMNH or MNHP.

= *striata* (W. H. Edwards, 1877)

Field & Forest 3(5): 88.

**Original Combination:** *Lycaena Striata*

**Type Locality:** "San Antonio" [Bexar County, Texas]

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 358, fig. 2 ♂ D&V.

*marina* group, Bálint & K. Johnson, 1995

Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) 44: 4-5.

506. **Leptotes marina** (Reakirt, 1868)

Proc. Acad. Nat. Sci. Philad. 20: 87, no. 51.

**Original Combination:** *Lycaena Marina*

**Type Locality:** "Orizaba, Mexico...Mexico, near Vera Cruz" [Veracruz]

**Types:** Syntypes in FMNH.

= ‡"violacea" Gunder, 1925

Entomol. News 36(1): 6, no. 10, pl. 1, fig. U ♀ D ("Holotype").

**Original Combination:** *Leptotes marina* ab. ♀ *violacea*

**Type Locality:** "Oak Glen, Riverside County, California"

**Types:** "Holotype" in AMNH.

= ‡"burdicki" Henne, 1935

Entomol. News 46(4): 100, fig. 1 ♂ V ("Holotype").

**Original Combination:** *Leptotes marina* form *burdicki*

**Type Locality:** "Lennox, Los Angeles County, California"

**Types:** "Holotype" in UCMC.

- = ♀ "reakirti" W. D. Field, 1936  
 J. Entomol. & Zool. 28(2): 26.  
**Original Combination:** *Leptotes marina* female f. *reakirti*  
**Type Locality:** "Mesa Butte, Arizona" [Coconino County]  
**Types:** "Holotype" in USNM.

Genus **Brephidium** Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 123, no. 27. Type-species: *Lycaena exilis* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 294, no. 29, by original designation.

507. **Brephidium exilis** (Boisduval, 1852)

a. **Brephidium exilis exilis** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 294, no. 29; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1935 ♂ [not ♀] D&V.

**Original Combination:** *Lycaena exilis*

**Type Locality:** "Californie" implied from the title of the paper; defined as "Sacramento, Sacramento County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13.

**Types:** Holotype in USNM; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13, figs. 51 ♂ D, 52 ♂ V.

Species-genus gender conformation is *exile*.

= *fea* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 211, no. 11.

**Original Combination:** *Lycaena Fea*

**Type Locality:** "near Waco, Texas" [McLennan County]

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 357, fig. 1 ♂ D&V; paralectotype figured by W. Holland (1898), Butt. Book: pl. 32, fig. 4 ♂ D.

= ♀ "coolidgei" Gunder, 1925

Entomol. News 36(1): 2, no. 1, pl. 1, fig. L ♀ V ("Holotype").

**Original Combination:** *Brephidium exilis* ab. ♀ *coolidgei*

**Type Locality:** "Los Angeles, Los Angeles County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 53, fig. 8 ♀ V.

508. **Brephidium pseudofea** (Morrison, 1873)

Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 28, discussed the relationship between *B. exilis* and *B. pseudofea*, and the status of the taxon *isophthalma* (Herrich-Schäffer, 1862) as a subspecies of *B. exilis*.

a. **Brephidium pseudofea pseudofea** (Morrison, 1873)

Bull. Buffalo Soc. Nat. Sci. 1(4): 186-187.

**Original Combination:** *Lycaena pseudofea*

**Type Locality:** "Key West, Florida" [Monroe County]

**Types:** Syntype (#15975) in MCZ, others may be in USNM.

b. **Brephidium pseudofea insularis** Pavulaan & Gatrell, 1999

Tax. Rep. Int. Lepid. Surv. 1(7): 3-4, figs. 6 ♂ V, 7 ♂ D&V (holotype), 8 ♀ D&V, 9 ♂ V, 10 ♂ V, 11 ♀ V, 12 ♀ V.

**Original Combination:** *Brephidium isophthalma insularis*

**Type Locality:** "Rt 21 near Beaufort, Beaufort County, South Carolina"

**Types:** Holotype in CMNH.

= ♀ "carolina" Pavulaan, 1993

S. Lepid. News 15(4): 37, figs. 2 ♂ V, 3 ♀ D, 4 ♂ & ♀ D.

**Original Combination:** *Brephidium isophthalma pseudofea* form *carolina*

**Type Locality:** "near Beaufort, Beaufort Co., SC" [South Carolina]

**Types:** "Syntypes" in H. Pavulaan collection and MGCL; some paratypes of *B. p. insularis* are syntypes of "carolina."

Genus **Zizula** Chapman, 1910

Trans. Entomol. Soc. Lond. (4)1910[58](4): 483. Type-species: *Lycaena gaiika* Trimen, 1862, Trans. Entomol. Soc. Lond. (3)1[11](4): 403-404, by original designation.

509. **Zizula cyna** (W. H. Edwards, 1881)

Trans. Am. Entomol. Soc. 9(1): 3.

**Original Combination:** *Lycaena Cyna*

**Type Locality:** "San Antonio, Texas" [Bexar County]

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 68, fig. 1 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 359, fig. 3 ♀ D&V.

= *tullioli* (Godman & Salvin, 1887)

Biol. centr.-amer., Lepid. Rhop. 2(64): 108, no. 12: 3(66): pl. 58, figs. 28 ♂ D, 29 ♂ V.

**Original Combination:** *Lycaena tulliola*

**Type Locality:** "Mexico, Milpas, Ventanas...Cordova...Jalapa...Guatemala...San Gerónimo, Dueñas, Zapote"; figured specimen is from "San Gerónimo, Guatemala."

**Types:** Holotype in BMNH.

- = *mela* (Strecker, 1900)  
Lepid. Rhop. Het. (suppl. 3): 20.  
**Original Combination:** *Lycaena Mela*  
**Type Locality:** "Colorado; Bastrop, Texas; Chihuahua, Mexico; Muzo, Colombia"  
**Types:** Syntypes in FMNH.

Genus **Cupido** Schrank, 1801

Fauna boic. 2(1): 153, 206. Type-species: *Papilio minimus* Fuessly, 1775, Verz. bekannt. schweiz. Ins.: 31, by designation of I.C.Z.N. *Opinion* 503. Kudrna (1986), Butts. Europe 8: 194, and others since, considered *Everes* a subgenus or synonym of *Cupido* Schrank, 1801.

- = *Zizera* Moore [1881]  
Lepid. Ceylon 1(2): 78. Type-species: *Papilio alsus* [Schifferrmüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 184 (= *Papilio minimus* Fuessly, 1775, Verz. bekannt. schweiz. Ins.: 31; synonym).

Subgenus **Everes** Hübner, [1819]

Verz. bekannt. Schmett. (5): 69. Type-species: *Papilio amyntas* [Schifferrmüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 185 (= *Papilio argiades* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 472, no. 66; homonym), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 56. I.C.Z.N. *Opinion* 503 placed this name on the *Official List of Generic Names in Zoology* as name no. 1249.

- = *Binghamia* Tutt, [1908]  
Nat. Hist. Brit. Butts. 3(1): 41-42. Type-species: *Hesperia parrhasius* Fabricius, 1793, Entomol. Syst. 3(1): 289, no. 108, by original designation.
- = *Tiora* Evans, 1912  
J. Bombay Nat. Hist. Soc. 21(3): 984. Type-species: *Papilio sebrus* Hübner, [1824], Samml. europ. Schmett. 1: pl. 172, figs. 851-854 (= *Lycaena decolorata* Staudinger, 1886, Stettiner Entomol. Ztg. 47(4-6): 204; homonym), by designation of Hemming (1929), Ann. Mag. Nat. Hist. (10)3(15): 242.
- = *Ununcula* van Eecke, 1915  
Zoöl. Meded. 1(1): 29-30, pl. 2, figs. 6, 6a, 6b, 6c, 7, 7a, 7b. Type-species: *Papilio argiades* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 472, no. 66, by designation of Hemming (1929), Ann. Mag. Nat. Hist. (10)3(15): 243.

510. **Cupido comyntas** (Godart, [1824])a. **Cupido comyntas comyntas** (Godart, [1824])

In: Ency. méth. 9(Ins.) (2): (608), 660, no. 147; figured by Boisduval and Le Conte [1835], Hist. Lépid. Amér. sept. (12): pl. 36, figs. 6 ♂ D, 7 ♂ V.

**Original Combination:** *Polyommatus Comyntas*

**Type Locality:** "l'Amérique septentrionale"

**Types:** Holotype in MNHP.

- = ♀ "watermani" (Nakahara, 1926)  
Bull. Brooklyn Entomol. Soc. 20(5): 224.  
**Original Combination:** *Everes comyntas* ab. *watermani*  
**Type Locality:** "Ithaca, N. Y." [Tompkins County, New York]  
**Types:** "Holotype" in USNM.
- = ♀ "meinersi" (W. D. Field, 1938)  
J. Kansas Entomol. Soc. 11(4): 132-133.  
**Original Combination:** *Everes comyntas* f. *meinersi*  
**Type Locality:** "Lawrence, Kansas" [Douglas County]  
**Types:** "Holotype" in USNM.

The text clearly indicates that this taxon was described as an individual variant.

b. **Cupido comyntas texana** (F. Chermock, 1945)

Can. Entomol. 76(11): 215.

**Original Combination:** *Everes texana*

**Type Locality:** "near San Antonio, Texas" [Bexar County]

**Types:** Holotype in USNM.

Species-genus gender conformation is *texanus*.

c. **Cupido comyntas sissona** (W. G. Wright, 1905)

Butts. W. Coast: 64, no. 400; 232, no. 400, pl. 30, fig. 400 ♀ V (holotype).

**Original Combination:** [*Lycaena*] *Sissona*; *Lycaena Sissona* n. s.

**Type Locality:** "Northern California" "Sisson, Cal." [Mount Shasta City, Siskiyou County, California]

**Types:** Lectotype in CAS (#4319), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 37.

The status of this taxon was determined by Austin (2002), J. Lepid. Soc. 56(4): 294.

- = *pacnowe* Scott & Kondla, 2006  
Papilio (n.s.) 12: 48, pl. 4, 1st row left center ♂ D&V (holotype).  
**Original Combination:** *Cupido* (= *Everes*) *comyntas pacnowe*  
**Type Locality:** "Adair Village, Benton Co. Ore." [Oregon]  
**Types:** Holotype in BMNH.



511. **Cupido amyntula** (Boisduval, 1852)
- a. **Cupido amyntula montanorum** (Austin, 1998)  
 Syst. W. N. Am. Butts. (45): 549, figs. 49 ♂ D, 50 ♂ V (holotype); 51 ♀ D, 52 ♀ V.  
**Original Combination:** *Everes amyntula montanorum*  
**Type Locality:** "Nevada: Washoe County; Carson Range, Tahoe Meadows, Nevada State Route 431, 2.4 road miles southwest of Mount Rose Summit, 2590 m, T17N R18E S36 on USGS Mt. Rose, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- b. **Cupido amyntula amyntula** (Boisduval, 1852)  
 Anns. Soc. Entomol. Fr. (2)10(2): 294, no. 28; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1938 ♂ D&V.  
**Original Combination:** *Lycaena amyntula*  
**Type Locality:** "Californie" from the title of the paper; defined as "Bucks Lake Road at White Creek, 2 road miles W. of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13, figs. 48 ♂ D, 49 ♂ V.  
 = *immaculata* Scott, 2006  
 Papilio (n.s.) 12: 48, pl. 4, 1st row left ♂ D&V (holotype).  
**Original Combination:** *Cupido* (= *Everes*) *amyntula immaculata*  
**Type Locality:** "Oak Creek, Yakima Co. Wash." [Washington]  
**Types:** Holotype in BMNH.  
 = ⚡"dodgei" (Gunder, 1927)  
 Can. Entomol. 59(12): 283, no. 7, pl. A, fig. 7 ♀ V ("Holotype").  
**Original Combination:** *Everes amyntula* tr. f. *dodgei*  
**Type Locality:** "Santa Cruz, Calif." [Santa Cruz County, California]  
**Types:** "Holotype" in AMNH.  
 ⚡"immaculata" (Scott, 1981)  
 Papilio (n.s.) 1: 6.  
**Original Combination:** *Everes amyntula* form *immaculata*  
**Type Locality:** "west coast, and occasionally in the Great Basin"  
 Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- c. **Cupido amyntula nesiotis** (J. Emmel & T. Emmel, 1998)  
 Syst. W. N. Am. Butts. (21): 303-304, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Everes amyntula nesiotis*  
**Type Locality:** "California: Santa Barbara County; Santa Rosa Island; China Camp"  
**Types:** Holotype in LACM.
- d. **Cupido amyntula herri** (F. Grinnell, 1901)  
 Can. Entomol. 33(7): 192.  
**Original Combination:** *Everes amyntula*, var. *Herri*  
**Type Locality:** "Cochise Co., Arizona"; suggested to be "Huachuca Mtns." by Bailowitz (1983), J. Lepid. Soc. 36(4): 309. [Cochise County, Arizona]  
**Types:** Syntypes in LACM.  
 Bailowitz (1983), J. Lepid. Soc. 36(4): 308, detailed the status of this taxon.  
 = ⚡"arizonensis" (Gunder, 1927)  
 Can. Entomol. 59(12): 284, no. 10, pl. A, fig. 10 ♂ V ("Holotype").  
**Original Combination:** *Everes comyntas* race *herri* tr. f. *arizonensis*  
**Type Locality:** "Santa Rita Mts., Ariz." [Santa Cruz County, Arizona]  
**Types:** "Holotype" in AMNH.  
 = ⚡"jemezensis" (Gunder, 1927)  
 Can. Entomol. 59(12): 284, no. 11, pl. A, fig. 11 ♀ V ("Holotype").  
**Original Combination:** *Everes amyntula herri* tr. f. *jemezensis*  
**Type Locality:** "Jemez Spr., N. Mex." [Sandoval County, New Mexico]  
**Types:** "Holotype" (#7179) in ANSP.
- e. **Cupido amyntula valeriae** (Clench, 1944)  
 J. N. Y. Entomol. Soc. 52(1): 59-60.  
**Original Combination:** *Everes comyntas valeriae*  
**Type Locality:** "near Lead, South Dakota" [Lawrence County]  
**Types:** Holotype (#25934) in MCZ.
- f. **Cupido amyntula albrighti** (Clench, 1944)  
 J. N. Y. Entomol. Soc. 52(1): 60-61.  
**Original Combination:** *Everes comyntas albrighti*  
**Type Locality:** "Kings Hill, Montana" [Meagher County]  
**Types:** Holotype (#26562) in MCZ.
- g. **Cupido amyntula maritima** (Leblanc, 1985)  
 Faberies (suppl. 4): 45 and key.  
**Original Combination:** [*Everes amyntula*] *maritima*  
**Type Locality:** "Québec (Rimouski, Baspésie)"; lectotype from "Jacquet River/ N. B." [New Brunswick]  
**Types:** Lectotype (#21 894) in CNC, designated by Landry (1994), Faberies 19(2): 33-34, figs. 1 ♂ D, 1 ♂ V.  
 The key in Leblanc (1985) apparently qualifies as a description.

Genus *Celastrina* Tutt, 1906

Entomol. Rec. & J. Var. 18(5): 131. Type-species: *Papilio argiolus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 153, by original designation.

- = ‡*Cyaniriodes* Matsumura, 1919  
Thous. Ins. Japan, Addit. 3: 736. Type-species: *Lycaena ogasawarensis* Pryer, 1886, Rhop. nihon. (1): 10-11, no. 24., pl. 2, fig. 13, by monotypy. Preoccupied by *Cyaniriodes* de Nicéville, 1890, Butts. India Burmah Ceylon 3: 33.
- = *Maslowskia* M. M. Omelko & M. A. Omelko, 1984  
In: Kononenko *et al.*, Fauna Ekol. Ins. Far East: 25. Type-species: *Lycaenopsis filippjevi* N. Riley, 1934, Entomol. 67(4)[851]: 85-86, pl. 1, figs. 1-6. Kurentsov (1974), Zoogeogr. Far East: 92, is frequently considered to have described this genus (*e.g.*, Korshunov and Ivonin (1990), in: Zolotareno, Nov. Maloizvest. Vidy Faun. Sib. 22: 77-78); however, Kurentsov mentioned this name without a description; a *nomen nudum*.

512. *Celastrina lucia* (W. Kirby, 1837)a. *Celastrina lucia lucia* (W. Kirby, 1837)

Fauna Bor.-Am. [4]: 299, no. 1, pl. 3, figs. 8 ♂ D, 9 ♂ V.

**Original Combination:** *Polymmatius Lucia*

**Type Locality:** "taken with the preceding...Lat. 54°"; Klots (1951), Field Guide Butts. N. Am.: 170, stated "Cumberland House, Saskatchewan, Lat. 54° N."

**Types:** Type(s) possibly in BMNH.

Treated as a species-level taxon by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 28, based on Pavulaan (1995), Mass. Butts. 6(1):2-4, and other recent works.

= *marginata* (W. H. Edwards, 1883)

*Papilio* 3(5/6): 86-87; figured by W. H. Edwards (1884), Butts. N. Am. 2(12): pl. *Lycaena* 2, figs. 3 ♂ D, 4, 4a ♀ D&V.

**Original Combination:** [*Lycaena Pseudargiolus* form] *Marginata*

**Type Locality:** "New York, New England, and Quebec, at least in the region about Montreal"; lectotype from "Orono, Maine." [Penobscot County]

**Types:** Lectotype in CMNH, designated by Clench (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 423, fig. 30 ♂ D&V.

= *quesnellii* (Cockle, 1910)

Can. Entomol. 42(6): 204.

**Original Combination:** *Cyaniris ladon* var. *Quesnellii*

**Type Locality:** "Bala Lake, Quesnelle, northern B. C."; stated as "[Ahbau] Lake, [elevation 2950 feet], [latitude 53° 14', longitude 122° 07',] 35 miles northwest of Quesnelle [Forks], B. C., [Canada]" by C. Guppy and Kondla (2003), J. Lepid. Soc. 57(2): 150. [British Columbia]

**Types:** Lectotype (#583) in CNC, designated by C. Guppy and Kondla (2003), J. Lepid. Soc. 57(2): 151.

Another name, "maculatasuffusa," was listed by Cockle (1910) without a description or indication; a *nomen nudum*.

## = ‡"fumida" (Scudder, 1889)

Butts. E. U. S. & Can. 2(7): 933.

**Original Combination:** *C[yaniris]. p[seudargiolus]. [ab.] fumida*

**Type Locality:** "New England" implied from the title of the book.

**Types:** "Holotype" in Thaxter collection.

The text clearly indicates that this taxon was described as an individual variant.

## = ‡"pseudora" (Scudder, 1889)

Butts. E. U. S. & Can. 2(7): 933-934.

**Original Combination:** *C[yaniris]. p[seudargiolus]. [ab.] pseudora*

**Type Locality:** "Milford, N. H." [Hillsborough County, New Hampshire]

**Types:** "Holotype" in MCZ according to W. Comstock and Huntington (1963), J. N. Y. Entomol. Soc. 71(1): 47.

## = ‡"brunnea" Tutt, [1908]

Nat. Hist. Brit. Butts. 2(19): 413; cited W. H. Edwards (1884), Butts. N. Am. 2(12): pl. *Lycaena* 2, fig. 25 ♂ V.

**Original Combination:** [*Celastrina argiolus pseudargiolus* form *lucia*] ab. *brunnea*

**Type Locality:** "Brooklyn" in reference to a specimen obtained from Hulst, living in Brooklyn. [Brooklyn, Kings County, New York]

**Types:** "Type" may be in CMNH, unrecognizable, or lost.

## = ‡"subtusjuncta" Tutt, [1908]

Nat. Hist. Brit. Butts. 2(19): 414; cited Scudder (1889), Butts. E. U. S. & Can. 2(7): 934.

**Original Combination:** [*Celastrina argiolus pseudargiolus* form *lucia*] ab. *subtusjuncta*

**Type Locality:** "Wollaston, Mass." [Quincy, Norfolk County, Massachusetts]

**Types:** "Type" may be in MCZ, unrecognizable, or lost.

## = ‡"inaequalis" Tutt, [1908]

Nat. Hist. Brit. Butts. 2(19): 416; cited W. H. Edwards (1884), Butts. N. Am. 2(12): pl. *Lycaena* 2, fig. 24 ♂&♀ D.

**Original Combination:** [*Celastrina argiolus pseudargiolus* form *lucia*] ab. *inaequalis*

**Type Locality:** "Brooklyn"; in reference to a specimen obtained from Hulst, living in Brooklyn. [Brooklyn, Kings County, New York]

**Types:** "Type" may be in CMNH, unrecognizable, or lost.

## = ‡"lucimargina" Scott, 1981

*Papilio* (n.s.) 1: 6.

**Original Combination:** *Celastrina argiolus ladon* form *lucimargina*

Proposed as a form with no nomenclatural standing; a *nomen nudum*. This name refers to a "form" that occurs widely in several *Celastrina* species; it is placed here as a convenience.

b. *Celastrina lucia lumarco* Scott, 2006

Papilio (n.s.) 12: 48-49, pl. 4, 1st row center ♂ D&V (holotype), right ♂ V, ♀ V.

**Original Combination:** *Celastrina lucia lumarco*

**Type Locality:** "Surface Creek, 7.6 mi. NNE Cedaredge, Delta Co. Colo." [Colorado]

**Types:** Holotype in BMNH.

513. *Celastrina echo* (W. H. Edwards, 1864)

C. Guppy and J. Shepard (2001), Butts. B. C.: 226-227, Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 28, and A. Warren (2005), Butts. Ore.: 161-165, treated this as a species-level taxon. The inclusion of *nigrescens*, *sidara*, and *cinerea* as subspecies of *C. echo* should be considered tentative, since some or all of these may be species-level taxa.

a. *Celastrina echo echo* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 506-507, no. 8; figured by W. H. Edwards (1884), 2(12): pl. *Lycaena* 2, fig. 21 ♀ D.

**Original Combination:** *Lycaena Echo*

**Type Locality:** "California"; neotype from "San Francisco, Calif." [San Francisco County]

**Types:** Neotype in CMNH, designated by F. Brown and Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 430-431, fig. 36 ♂ D&V.

= ♀ "nunenmacheri" (Strand, 1915)

Arch. Naturgesch. (A)80(11): 159.

**Original Combination:** *Cyaniris ladon* cum ab. *nunenmacheri*

**Type Locality:** "Lake Co., Oregon"

**Types:** "Holotype" possibly in DEL.

b. *Celastrina echo nigrescens* (Fletcher, 1903)

Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 213-214, pl. fig. ♂ D, ♀ D.

**Original Combination:** *Lycaena pseudargiolus* var. *nigrescens*

**Type Locality:** "Kaslo, on Kootenay Lake, British Columbia"

**Types:** Holotype in USNM.

This taxon was redescribed by Fletcher (1904), Can. Entomol. 36(5): 127, fig. ♂&♀ D. The placement of this taxon as a subspecies of *C. echo* follows A. Warren (2005), Butts. Ore.: 161-163, but requires additional study.

= *bakeri* (Clench, 1944)

J. N. Y. Entomol. Soc. 52(3): 274-275.

**Original Combination:** *Lycaenopsis pseudargiolus bakeri*

**Type Locality:** "Baker, Oregon" [Baker City, Baker County]

**Types:** Holotype in MCZ.

A. Warren (2005), Butts. Ore.: 163, tentatively placed this taxon here.

c. *Celastrina echo sidara* (Clench, 1944)

J. N. Y. Entomol. Soc. 52(3): 273-274.

**Original Combination:** *Lycaenopsis pseudargiolus sidara*

**Type Locality:** "Manitou, Colorado" [Manitou Springs, El Paso County]

**Types:** Holotype in MCZ.

d. *Celastrina echo cinerea* (W. H. Edwards, 1883)

Papilio 3(1): 8; figured by W. H. Edwards (1884), 2(12): pl. *Lycaena* 2, figs. 16 ♂ D, 16a ♂ V, 17 ♀ D.

**Original Combination:** [*Lycaena Pseudargiolus*] var. *Cinerea*

**Type Locality:** "Arizona"; implied to be "vicinity of Fort Grant, Cochise Co. [sic!], and on Graham Mountain" from the introduction to the paper; defined as "Fort Grant at west foot of Graham Mountain" by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 427-428. [Graham County]

**Types:** Lectotype in CMNH, designated by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 428, fig. 35 ♂ D&V.

= *arizonensis* (W. H. Edwards, [1885])

Trans. Am. Entomol. Soc. 11(3/4): 306, under no. 432; cited W. H. Edwards (1884), Butts. N. Am. 2(12): pl. *Lycaena* 2, figs. 18 ♂ D, 19 ♀ D (as *Lycaena pseudargiolus*).

**Original Combination:** [*Lycaena Pseudargiolus*] var. *Arizonensis*

**Type Locality:** "Arizona"; defined as "Fort Grant, Cochise County [sic!] at the west foot of Mount Graham" by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 428. [Graham County]

**Types:** Lectotype in CMNH, designated by Clench (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 429, fig. 34 ♂ D&V.

514. *Celastrina ladon* (Cramer, 1780)

Uitd. Kapellen 3(23): 141, pl. 270, figs. D ♂ D, E ♂ V; (24): 175 (index).

**Original Combination:** *Pap[ilio]. Pleb[ejus]. Rural[is]. Ladon*

**Type Locality:** "Kaap de Goede Hoop" "Cap de bonne Espérance" in error; neotype from "Patuxent River, Anne Arundel Co., Maryland."

**Types:** Neotype in MGCL, designated by Clench and L. Miller (1980), J. Lepid. Soc. 34(2): 117, figs. 9 ♂ D, 10 ♂ V.

The determination that *ladon* is a North American taxon was made by Butler (1885), Entomol. Am. 1(3): 53, and (1900), Can. Entomol. 32(3): 91.

= *pseudargiolus* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (13): 118-119; (12): pl. 36, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 larva, 5 pupa.

**Original Combination:** *A[rgus]. Pseudargiolus*



**Type Locality:** “grande partie des États-Unis”

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Oberthür (1920), *Étud. Lépid. Comp.* 17: pl. 505, figs. 4211 ♂ D&V, 4212 ♀ D&V, figured “types” from the Boisduval collection now in USNM, but Calhoun (2004), *J. Lepid. Soc.* 58(3): 156, discussed the dubious nature of such “types.”

= *violacea* (W. H. Edwards, 1866)

*Proc. Entomol. Soc. Philad.* 6(2): 200, 201-202, no. 3; figured by W. H. Edwards (1869), *Butts. N. Am.* [1](3): pl. *Lycaena* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D [not 4], and (1884), *Butts. N. Am.* 2(12): pl. *Lycaena* 2, figs. 5, 5a ♂ D&V, 6 ♀ D.

**Original Combination:** *Lycaena Violacea*

**Type Locality:** “Kanawha River” [nr. Coalburgh, Kanawha County, West Virginia]

**Types:** Lectotype in CMNH, designated by Clench (1970), *in*: F. Brown, *Trans. Am. Entomol. Soc.* 96(3): 424, fig. 31 ♂ D&V.

D. Wright and Pavulaan (1999), *Tax. Rep. Int. Lepid. Surv.* 1(9): 5, determined this synonymy.

515. ***Celastrina idella*** D. Wright & Pavulaan, 1999

*Tax. Rep. Int. Lepid. Surv.* 1(9): 4-5, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D&V, 6 ♂ D&V, 7 ♂ D&V, 8 ♀ D&V, 22 map, 28 ♂ genitalia, 29 ♂ genitalia.

**Original Combination:** *Celastrina idella*

**Type Locality:** “2.2 km. s. of Chatsworth, Burlington Co., NJ...cedar bog in Risley Branch of Wading River” [New Jersey]

**Types:** Holotype in ANSP.

516. ***Celastrina serotina*** Pavulaan & D. Wright, 2005

*Tax. Rep. Int. Lepid. Surv.* 6(6): 4, 6, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.

**Original Combination:** *Celastrina serotina*

**Type Locality:** “Great Swamp Management Area, near West Kingston, South Kingstown Township, Washington County, Rhode Island, U.S.A.”

**Types:** Holotype in ANSP.

517. ***Celastrina neglecta*** (W. H. Edwards, 1862)

*Proc. Acad. Nat. Sci. Philad.* 14(1/2): 54, 56, no. 4; figured by W. H. Edwards (1870), *Butts. N. Am.* [1](5): pl. *Lycaena* 2, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D, and (1884), *Butts. N. Am.* 2(12): pl. *Lycaena* 2, figs. 10, 10a ♂ D&V, 11 ♂ D, 12 ♀ D.

**Original Combination:** *Lycaena neglecta*

**Type Locality:** “Massachusetts, New York, Wisconsin, Lake Winnipeg”; lectotype from “Hunter, Greene Co., New York.”

**Types:** Lectotype in CMNH, designated by F. Brown and Clench (1970), *in*: F. Brown, *Trans. Am. Entomol. Soc.* 96(3): 427, fig. 33 ♂ D&V.

D. Wright (1995), *Am. Butts.* 3(1): 20-28, considered this a species-level taxon, an arrangement which has been followed by most subsequent authors (*e.g.*, Opler and A. Warren (2002), *Sci. Names List Butts. N. A.*: 28).

= *argentata* (Fletcher, 1903)

*Proc. & Trans. R. Soc. Can.* (2)9(Sect. IV): 213, pl., fig. ♂ D&V, ♀ D.

**Original Combination:** *Lycaena pseudargiolus* var. *argentata*

**Type Locality:** “Cartwright and other places in southern Manitoba, as well as in south-eastern Assiniboia”

**Types:** Holotype in USNM.

This taxon was redescribed by Fletcher (1904), *Can. Entomol.* 36(5): 127, fig. ♂ D&V, ♀ D. Layberry *et al.* (1998), *Butts. Can.*: 153, considered this a subspecies of *C. neglecta*.

= ⚔“pauper” Tutt, [1908]

*Nat. Hist. Brit. Butts.* 2(19): 407; cited W. H. Edwards (1884), *Butts. N. Am.* 2(12): pl. *Lycaena* 2, figs. 10 ♂ D, 13 ♂ D, 14 ♀ D, 15 ♂ D, 15a ♂ V.

**Original Combination:** [*Celastrina argiolus pseudargiolus*] [summer form] *pauper*

**Type Locality:** Not expressly stated; “about lat. 45°...Colorado” implied from reference to W. H. Edwards (1884).

**Types:** “Types” may be in CMNH, unrecognizable, or lost.

⚔“deutargiolus” Scudder, 1869

*Occ. Pap. Boston Soc. Nat. Hist.* 1: 165 and footnote.

**Original Combination:** [*Polyommatus*] *deutargiolus*

This name was listed without a description or indication; a *nomen nudum*.

518. ***Celastrina humulus*** Scott & D. Wright, 1998

*Papilio* (n.s.) 9: 1-2, figs. 1 ♂ D (holotype), 2 ♂ D, 3 ♂ V, 4 ♂ V, 5 ♂ V, 6 ♂ V, 7 ♀ D, 8 ♀ D, 9 ♀ V, 10 ♀ V.

**Original Combination:** *Celastrina humulus*

**Type Locality:** “Red Rocks, Jefferson County, Colorado”

**Types:** Holotype in BMNH.

519. ***Celastrina neglectamajor*** Opler & Krizek, 1984

*Butts. East Great Plains*: 117-118, pl. 18, fig. 106.

**Original Combination:** *Celastrina neglectamajor*

Opler and Krizek adopted *Celastrina argiolus pseudargiolus* summer form *neglecta-major* Tutt, 1908, to represent a species-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ⚔“neglectamajor” Tutt, [1908]

*Nat. Hist. Brit. Butts.* 2(19): 407; cited W. H. Edwards (1884), *Butts. N. Am.* 2(12): [5], pl. *Lycaena* 2, figs. 8 ♂ D (lectotype), 9 ♀ D, 9a ♀ V.

**Original Combination:** [*Celastrina argiolus pseudargiolus*] [summer form] *neglecta-major*

**Type Locality:** Not stated; lectotype from “Coalburgh, West Virginia.” [Kanawha County]

**Types:** Lectotype in CMNH, designated by Pavulaan and D. Wright (2000), *Tax. Rep. Int. Lepid. Surv.* 2(5): 11, figs. 20 ♂ D, 21 ♂ V.

As a quadrinomial, this name is unavailable (Code Article 45.5).

= ‡"obsoletalunulata" Tutt, [1908]

Nat. Hist. Brit. Butts. 2: 426-427; cited W. H. Edwards (1884), Butts. N. Am. 2(12): 10, pl. *Lycaena* 2, fig. 22 ♀ V.

**Original Combination:** [*Celastrina argiolus pseudargiolus*] ab. *obsoleta-lunulata*

**Type Locality:** "eastern United States"

**Types:** "Lectotype" in CMNH, designated by Pavulaan and D. Wright (2000), Tax. Rep. Int. Lepid. Surv. 2(5): 11, fig. 24 ♀ V.

520. ***Celastrina nigra*** (W. Forbes, 1960)

Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 127.

**Original Combination:** [*Plebeius argiolus*] race *nigra*

Forbes adopted *Lycaena Pseudargiolus* winter form *Violacea* dimorphic male *nigra* W. H. Edwards, [1885], to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

Scott and D. Wright (1993), J. Res. Lepid. 30(3/4): 257-260, discussed this name and all of its applications.

= ‡"nigra" (W. H. Edwards, [1885])

Trans. Am. Entomol. Soc. 11(3/4): 306, under no. 432; cited W. H. Edwards (1869), Butts. N. Am. [1](3): pl. *Lycaena* 1, fig. 4 ♂ D (as ♀), and (1884), Butts. N. Am. 2(12): pl. *Lycaena* 2, fig. 7 ♂ D.

**Original Combination:** [*Lycaena Pseudargiolus* Winter form *Violacea*] dimorphic male *Nigra*

**Type Locality:** Not stated; lectotype from "Coalburg, Kanawha County, West Virginia"

**Types:** "Lectotype" in CMNH, designated by Clench (1970), in F. Brown, Trans. Am. Entomol. Soc. 96(3): 425-426, fig. 32 ♂ D&V. The name was listed in synonymy without a description or indication by W. H. Edwards (1884), Butts. N. Am. 2(12): [315]; a *nomen nudum*.

= *ebenina* Clench, 1972

Ann. Carnegie Mus. 44(1): 33-37, fig. 1 ♂ D&V (holotype), 10 ♂ genitalia.

**Original Combination:** *Celastrina ebenina*

**Type Locality:** "Coalburg, Kanawha Co., West Virginia"

**Types:** Holotype in CMNH, the same specimen as the lectotype of *nigra* (W. Forbes, 1960).

A junior objective synonym of *nigra*.

= ‡"nigra" (Strecker, 1878)

Butts. Moths N. Am., Comp. Syn. Cat.: 95, no. 136a; cited W. H. Edwards (1869), Butts. N. Am. [1](3): pl. *Lycaena* 1, fig. 4 ♂ D.

**Original Combination:** [*Lycaena Lucia*] ab. a. ♀ *Nig[ra]*.

**Type Locality:** "Virginia"

**Types:** "Holotype" is the same specimen figured by W. H. Edwards (1869), *ibid.*, in CMNH.

= ‡"intermedia" (Strecker, 1878)

Butts. Moths N. Am., Comp. Syn. Cat.: 95, no. 136b.

**Original Combination:** [*Lycaena Lucia*] ab. b. ♀ *Intermedia*

**Type Locality:** "Virginia"

**Types:** "Type(s)" apparently lost, but possibly in FMNH.

Genus ***Udara*** Toxopeus, 1928

Tijdschr. Entomol. 71(3): 181, 219. Type-species: *Polyommatus dilectus* Moore, 1879, Proc. Zool. Soc. Lond. 1879(1): 139, by original designation.

= *Akasinula* Toxopeus, 1928

Tijdschr. Entomol. 71(3): 181, 194. Type-species: *Polyommatus akasa* Horsfield, [1828], Descr. Cat. Lepid. Ins. Mus. E. India Co. (1): 67, pl. 1, figs. 1, 1A, by original designation.

Subgenus ***Vaga*** Zimmerman, 1958

Ins. Hawaii 7: 491. Type-species: *Holochila blackburni* Tuely, 1878, Entomol. Mon. Mag. 15(1)[169]: 9, by original designation.

521. ***Udara blackburni*** (Tuely, 1878)

Entomol. Mon. Mag. 15(1)[169]: 9.

**Original Combination:** *Holochila blackburni*

**Type Locality:** "mountain pass in the Island of Oahu" [Honolulu County, Hawaii]

**Types:** Holotype in BMNH.

Genus ***Hemiargus*** Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 19. Type-species: *Hemiargus antibubastus* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [18], figs. 99, 100; 19, no. 50 (= *Hesperia ceraunus*, Fabricius, 1793, Entomol. Syst. 3(1): 303, no. 149; subspecies), by designation of Hemming (1934), Gen. Names Holarct. Butts. 1: 104.

\*522. ***Hemiargus ceraunus*** (Fabricius, 1793)

Entomol. Syst. 3(1): 303, no. 149.

**Original Combination:** *H[esperia]*. *R[urales]*. *Ceraunus*

**Type Locality:** "America meridionalis Insulis Dr. Pflug"; defined as "Jamaica and Hispaniola" by W. Comstock and Huntington (1943), Ann. N. Y. Acad. Sci. 45(2): 107; stated to be "probably Jamaica" by Klots (1951), Field Guide Butts. N. Am.: 159; suggested



to be "Jamaica or Hispaniola" by F. Brown (1972), in: F. Brown and Heineman, *Jamaica Butts.*: 252.

**Types:** Syntypes in ZMUC.

Lamas (2004g), *Atl. Neotrop. Lepid. Chcklst. Part 4A*: 139, placed *ceraunus* and all of its subspecies under *Hemiargus hanno* (Stoll, 1790), *Aanhangs. Werk Utitl. Kapellen Pieter Cramer* (3): 170, pl. 39, fig. 2 ♂ D, 2B ♂ V; 183 (index). This view was supported by W. Comstock and Huntington (1943), *Ann. N. Y. Acad. Sci.* 45(2): 106-107, N. Riley (1975), *Field Guide Butts. W. Indies*: 109, pl. 12, figs. 12a, 12b, F. Brown and Heineman (1972), *Jamaica Butts.*: 252-253, D. Smith *et al.* (1989), *J. Lepid. Soc.* 43(4): 282, and (1994), *Butts. W. Indies & S. Florida*: 128, but disputed by Wood (1924), *Entomol. News* 35(10): 359-361, Nabokov (1945), *Psyche* 52(1/2): 20, Scott (1986), *Papilio* (n.s.) 3: 7, and K. Johnson and Bálint (1995), *Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point)* (54): 1-15. Schwartz (1989), *Butts. Hispaniola*: 262-266, reported *H. hanno* and *H. ceraunus* as widely sympatric on Hispaniola, but did not indicate how he separated them. Additional research is needed to resolve the issue.

**a. *Hemiargus ceraunus antibubastus* Hübner, 1818**

*Zutr. Samml. exot. Schmett.* 1: pl. [18], figs. 99 ♂ D, 100 ♂ V [1813]; 19, no. 50 (1818, name given).

**Original Combination:** *Hemiargus Antibubastus*

**Type Locality:** "Georgien in Florida"

**Types:** Type(s) probably lost.

This taxon was originally given the name *Rusticus bubastus* Hübner, 1808, *Erste Zutr. Samml. exot. Schmett.*: 5, but this document was suppressed by I.C.Z.N. *Opinion* 789.

= *pseudoptiletes* (Boisduval & Le Conte, [1835])

*Hist. Lépid. Amér. sept.* (12): 114-117, pl. 35, figs. 5 ♂ D, 6 ♀ D, 7 ♀ V; cited *Polyommatus filemus* Poey, 1832, *Cent. Lépid. Cuba* (2): pl. [13], figs. [1], [2], [3], *Rusticus hanno* Hübner [1812], *Samml. exot. Schmett.* 1: pl. [98], *Papilio ubaldus* Stoll, 1781, *Utitl. Kapellen* 4(32): pl. 390, figs. L, M, and *Polyommatus ubaldus* Godart, [1824], in: *Ency. méth.* 9(Ins.) (2): 682, no. 207.

**Original Combination:** *A[rgus]. Pseudoptiletes*

**Type Locality:** "Caroline, la Virginie, Géorgie, dans plusieurs Antilles et au Mexique"

**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection. A "type" is supposedly in USNM, but Calhoun (2004), *J. Lepid. Soc.* 58(3): 156, discussed the dubious nature of such Boisduval "types."

**b. *Hemiargus ceraunus astenidas* (Lucas, 1857)**

*In: Sagra, Hist. Cuba*: 7(2): 613.

**Original Combination:** *Lycaena Astenidas*

**Type Locality:** "habite l'île de Cuba...Martinique" in error; apparently from Central America or eastern Mexico.

**Types:** Type(s) probably in MNHP.

= *zachaeina* (Butler & H. Druce, 1872)

*Cist. Entomol.* 1(5): 104-105; figured by Butler (1873), *Lepid. Exot.* (13): 157, pl. 57, fig. 1 ♂ V.

**Original Combination:** *L[ampides]. Zachaeina*

**Type Locality:** "Cartago, Costa Rica" implied from the title and introduction to the paper.

**Types:** Lectotype (#265760) in BMNH, designated by Bálint (1999), *Neue Entomol. Nachr.* 46: 7.

**c. *Hemiargus ceraunus gyas* (W. H. Edwards, 1871)**

*Trans. Am. Entomol. Soc.* 3(3/4): 205, 210-211, no. 10.

**Original Combination:** *Lycaena Gyas*

**Type Locality:** "Arizona"; neotype from "Tucson, Pima Co., Arizona."

**Types:** Neotype in CMNH, designated by F. Brown and Clench (1970), *Trans. Am. Entomol. Soc.* 96(3): 362, fig. 4 ♂ D&V.

= *astragala* (W. G. Wright, 1905)

*Butts. W. Coast*: 64, no. 401; 232, no. 401, pl. 30, fig. 401 ♂ V (holotype).

**Original Combination:** [*Lycaena*] *Astragala*; *Lycaena Astragala* n. s.

**Type Locality:** "Southern California" "San Bernardino, Cal." [San Bernardino County]

**Types:** Holotype (#4320) in CAS.

= *florencia* (Clemence, 1914)

*Entomol. News* 25(1): 28.

**Original Combination:** *Lycaena florencina*

**Type Locality:** "Southern Arizona (Huachuca Mountains...)...Brawley, Imperial Valley, California...Yuma Arizona"

**Types:** Location of type(s) not known.

**Genus *Philotes* Scudder, 1876**

*Bull. Buffalo Soc. Nat. Sci.* 3: 116, no. 18. Type-species: *Lycaena regia* Boisduval, 1869, *Annls. Soc. Entomol. Belg.* 12: 46, no. 20 (= *Lycaena sonorensis* C. Felder & R. Felder, 1865, *Reise Novara* (2): 281, pl. 35, figs. 3, 4; synonym), by original designation.

**523. *Philotes sonorensis* (C. Felder & R. Felder, 1865)**

**a. *Philotes sonorensis sonorensis* (C. Felder & R. Felder, 1865)**

*Reise Novara* (2): 281, no. 356, pl. 35, figs. 3 ♂ D, 4 ♂ V.

**Original Combination:** *Lycaena Sonorensis*

**Type Locality:** "Sonora"; defined as "San Diego, Calif." by Shields (1973), *Bull. Allyn Mus.* (15): 2; suggested to be "near the Verdugo Hills" by Mattoni (1991), *J. Res. Lepid.* 28(4): 302; defined as "La Tuna Canyon, 1200 ft. Elev., Verdugo Mts., Los Angeles County, California" by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (5): 90.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), *Syst. W. N. Am. Butts.* (5): 90, figs. 22 ♂ D, 23 ♂ V.

= *regia* (Boisduval, 1869)

*Annls. Soc. Entomol. Belg.* 12: 46, no. 22; figured by Oberthür (1913), *Étud. Lépid. Comp.* 9(1): pl. 238, figs. 1959 ♂



D&V, 1960 ♀ D&V.

**Original Combination:** *Lycaena regia*

**Type Locality:** "environs de Los Angeles"; defined as "La Tuna Canyon, 1360' elevation, Verdugo Mountains, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 26, figs. 189 ♂ D, 190 ♂ V.  
= ♀ "sonoralba" F. Watson & W. Comstock, 1920

Bull. Am. Mus. Nat. Hist. 42(10): 456.

**Original Combination:** *Philotes sonorensis* ab. *sonoralba*

**Type Locality:** "San Diego, California" [San Diego County]

**Types:** "Holotype" in AMNH.

= ♀ "comstocki" Gunder, 1925

Entomol. News 36(1): 6-7, no. 11, pl. 1, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

**Original Combination:** *Philotes sonorensis* form *comstocki*

**Type Locality:** "San Gabriel River, Duarte, Los Angeles County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 56, fig. 10 ♂ D (holotype), 15 ♂ V.

b. *Philotes sonorensis extinctis* Mattoni, 1991 †

J. Res. Lepid. 28(4): 300, 302, figs. 2 rows 1, 2 ♂♂ D, 3 ♂♂ V, 4 ♀♀ D, 3 rows 1 ♀♀ D, 3 ♀♀ V.

**Original Combination:** *Philotes sonorensis extinctis*

**Type Locality:** "upper San Gabriel wash" [Los Angeles County, California]

**Types:** Holotype in USNM.

Genus *Philotiella* Mattoni, [1978]

J. Res. Lepid. 16(4): 227, 230, pl. 5, pl. 10, pl. 12. Type-species: *Lycaena speciosa* Hy. Edwards, 1877, Proc. Calif. Acad. Sci. 7(12): 173, by original designation.

524. *Philotiella speciosa* (Hy. Edwards, 1877)

a. *Philotiella speciosa speciosa* (Hy. Edwards, 1877)

Proc. Calif. Acad. Sci. [1]7(12): 173.

**Original Combination:** *Lycaena speciosa*

**Type Locality:** "Havilah, Kern County" [California]

**Types:** Holotype in AMNH; possibly figured by W. Holland (1898), Butt. Book: pl. 32, fig. 1 ♂ D.

b. *Philotiella speciosa septentrionalis* Austin, 1998

Syst. W. N. Am. Butts. (45): 557, figs. 101 ♂ D, 102 ♂ V (holotype); 103 ♀ D, 104 ♀ V.

**Original Combination:** *Philotiella speciosa septentrionalis*

**Type Locality:** "Nevada: Lyon County; Fort Churchill Road, 12.3 road miles south (= east) of U.S. highway 50, 1341 m, T17N R24E S32 on USGS Churchill Butte, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

c. *Philotiella speciosa bohartorum* (Tilden, [1969])

J. Res. Lepid. 6(4): 281-283.

**Original Combination:** *Philotes speciosa bohartorum*

**Type Locality:** "Briceburg, Mariposa Co., Calif...just behind the Briceburg Station where an old bridge crosses the Merced River" [California]

**Types:** Holotype in LACM; possibly figured by Mattoni [1978], J. Res. Lepid. 16(4): pl. 4, top row, right ♂ D, pl. 5, top row right ♂ V.

d. *Philotiella speciosa purissima* Priestaf & J. Emmel, 1998

Syst. W. N. Am. Butts. (19): 283-284, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Philotiella speciosa purissima*

**Type Locality:** "California: Santa Barbara County; Harris Grade at Burton Mesa Boulevard, north of Lompoc"

**Types:** Holotype in LACM.

525. *Philotiella leona* Hammond & McCorkle, 2000

Holarct. Lepid. 6(2): 77, figs. 1 ♂ genitalia lateral, 3 ♂ genitalia posterior, 5 ♀ genitalia dorsal (partial), 7 ♂ genitalia right valve inside, 8 ♂ genitalia left valve ventral, 9 ♂ genitalia right valve apical, 18 top row left ♂ D (holotype), top row right ♀ V, bottom row left ♀ D.

**Original Combination:** *Philotiella leona*

**Type Locality:** "milepost 226 along U.S. Highway 97, Klamath Co., Oregon"

**Types:** Holotype in AMNH.

Genus *Euphilotes* Mattoni, [1978]

J. Res. Lepid. 16(4): 224-225. Type-species: *Lycaena enoptes* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2)10(2): 298, no. 36, by original designation.

battoides complex Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (16): 216.

526. *Euphilotes battoides* (Behr, 1867)

The arrangement of taxa under this species is tentative. It is assumed that some taxa will eventually be removed to other species

in the *battoides* complex.

- a. ***Euphilotes battoides battoides*** (Behr, 1867)  
Proc. Calif. Acad. Sci. 3(4) ([sig.] 18): 282, no. 15.  
**Original Combination:** *L[ycæna]*. *Battoides*  
**Type Locality:** "California" implied from the title of the paper, "at an elevation of eleven thousand feet, on the headwaters of the San Joaquin River" from the description; neotype from "nr. Mono Pass, 12,000 ft. NW Inyo County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 102, figs. 52 ♀ D, 53 ♀ V.
  - b. ***Euphilotes battoides argocyanea*** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 217-218, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.  
**Original Combination:** *Euphilotes battoides argocyanea*  
**Type Locality:** "California: Inyo Co., E end of Nelson Range: slope 0.3 km W of Junction of Saline Valley Road and Hunter Mt. Road, 1,800-1,900 m"  
**Types:** Holotype in LACM.
  - c. ***Euphilotes battoides mazourka*** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 218-219, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.  
**Original Combination:** *Euphilotes battoides mazourka*  
**Type Locality:** "California: Inyo County: Inyo Mountains; northwest edge of Badger Flat, 0.5 air mile northeast of 9441' summit of Mazourka Peak, 8,800-8,900' elevation; northeast one-fourth of S23, T11S., R.35E"  
**Types:** Holotype in LACM.
  - d. ***Euphilotes battoides panamintensis*** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 219-220, figs. 43 ♂ D, 44 ♂ D (holotype); 45 ♀ D, 46 ♀ V.  
**Original Combination:** *Euphilotes battoides panamintensis*  
**Type Locality:** "California: Inyo Co.: Panamint Range, Wildrose Cyn., 2,100 m"  
**Types:** Holotype in LACM.
  - e. ***Euphilotes battoides allyni*** (Shields, 1975)  
Bull. Allyn Mus. (28): 10-11, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Shijimiaeoidea battoides allyni*  
**Type Locality:** "California: Los Angeles Co., El Segundo"  
**Types:** Holotype in MGCL.
  - f. ***Euphilotes battoides vernalis*** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 221, figs. 47 ♂ D, 48 ♂ V (holotype); 49 ♀ D, 50 ♀ V.  
**Original Combination:** *Euphilotes battoides vernalis*  
**Type Locality:** "California: San Bernardino Co.; Coxey Meadow; 1,600 m"  
**Types:** Holotype in LACM.
  - g. ***Euphilotes battoides fusimaculata*** Austin, 1998  
Syst. W. N. Am. Butts. (45): 551, figs. 65 ♂ D, 66 ♂ V (holotype); 67 ♀ D, 68 ♀ V.  
**Original Combination:** *Euphilotes battoides fusimaculata*  
**Type Locality:** "Nevada: Nye County; Toiyabe Mountains, Peavine Creek Campground, 2012 m, T8N R42E (unsectioned) on USGS Dry Canyon, Nev. 7.5' quadrangle"  
**Types:** Holotype in MGCL.
  - h. ***Euphilotes battoides anasazi*** Scott, 1998  
Papilio (n.s.) 11: 5, fig. 11 ♂ D (holotype), 12 ♀ D.  
**Original Combination:** *Euphilotes battoides anasazi*  
**Type Locality:** "Aztec, San Juan Co., New Mexico"  
**Types:** Holotype in BMNH.
527. ***Euphilotes glaucon*** (W. H. Edwards, 1871)  
Mattoni (1989), J. Res. Lepid. 27(3/4): 175, suggested that this may be a species-level taxon. A. Warren (2005), Butts. Ore.: 173-176, described patterns of geographic variation in this species in Oregon.
- a. ***Euphilotes glaucon glaucon*** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(3/4): 205, 210, no. 9.  
**Original Combination:** *Lycaena Glaucon*  
**Type Locality:** "Nevada"; defined as "Storey County, Nevada" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 406-407; further defined as "near Virginia City, Storey Co., Nevada" by Shields (1975), Bull. Allyn Mus. (28): 21.  
**Types:** Lectotype in AMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 409, fig. 22 ♂ D&V.
  - b. ***Euphilotes glaucon oregonensis*** (W. Barnes & McDunnough, 1917)  
Contrib. Nat. Hist. Lepid. N. Am. 3(4): 214, pl. 16, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♀ D.  
**Original Combination:** [*Philotes glaucon*] [race] *oregonensis*  
**Type Locality:** "Crater Lake, Oregon" [Klamath County]  
**Types:** Holotype in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 36 ♂ V.
  - c. ***Euphilotes glaucon australoglaucon*** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 216-217, figs. 31 ♂ D, 32 ♂ V (holotype); 33 ♀ D, 34 ♀ V.  
**Original Combination:** *Euphilotes battoides australoglaucon*  
**Type Locality:** "California: Inyo County; east slope Sierra Nevada; Independence Creek, 6,300' elevation"  
**Types:** Holotype in LACM.  
K. Davenport (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 29, allied this taxon with *E. glaucon*.

- d. **Euphilotes glaucon comstocki** (Shields, 1975)  
Bull. Allyn Mus. (28): 12, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Shijimiaeoides battoides comstocki*  
**Type Locality:** "California: Kern Co., Tehachapi"  
**Types:** Holotype in LACM.  
K. Davenport (2004), Tax. Rept. Int. Lepid. Surv. 4(7): 10, allied this taxon with *E. intermedia*.
- e. **Euphilotes glaucon intermedia** (W. Barnes & McDunnough, 1917)  
Contrib. Nat. Hist. Lepid. N. Am. 3(4): 214, pl. 16, figs. 4 ♂ D, 5 ♂ V, 6 ♀ D.  
**Original Combination:** [*Philotes glaucon*] [race] *intermedia*  
**Type Locality:** "Shasta Co., Cali. (presumably the vicinity of Castella in the Upper Sacramento Valley)" [California]  
**Types:** Holotype in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 38 ♂ D.  
Mattoni (1989), J. Res. Lepid. 27(3/4): 175, noted that this taxon is sympatric with *E. b. battoides* at some sites in California, and A. Warren (2005), Butts. Ore.: 174-175, allied *intermedia* with *E. glaucon*.  
= ♂ "malcolmi" (Gunder, 1927)  
Can. Entomol. 59(12): 282-283, no. 5, pl. A, fig. 5 ♂ V ("Holotype").  
**Original Combination:** *Philotes glaucon* race *intermedia* tr. f. *malcolmi*  
**Type Locality:** "Amer. River, Placer Co., Calif." [California]  
**Types:** "Holotype" in AMNH.
528. **Euphilotes centralis** (W. Barnes & McDunnough, 1917)  
Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 222-223, treated this as a species-level taxon.
- a. **Euphilotes centralis centralis** (W. Barnes & McDunnough, 1917)  
Contrib. Nat. Hist. Lepid. N. Am. 3(4): 215, pl. 16, figs. 7 ♂ D (holotype), 8 ♂ V.  
**Original Combination:** [*Philotes glaucon*] [race] *centralis*  
**Type Locality:** "Salida, Colo." [Chaffee County, Colorado]  
**Types:** Holotype in USNM.
- b. **Euphilotes centralis hadrochilus** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 222, figs. 51 ♂ D, 52 ♂ V, 53 ♀ D, 54 ♀ V.  
**Original Combination:** *Euphilotes centralis hadrochilus*  
**Type Locality:** "California, Inyo Co., 6 km S of Westgard Pass, 2,000 m"  
**Types:** Holotype in LACM.
529. **Euphilotes bernardino** (W. Barnes & McDunnough, 1916)  
Shields and Reveal (1988), Biol. J. Linn. Soc. 33(1): 87-88, fig. 1, tbl. 1, Mattoni (1989), J. Res. Lepid. 27(3/4): 176, and other recent authors treated this as a species-level taxon.
- a. **Euphilotes bernardino bernardino** (W. Barnes & McDunnough, 1916)  
Contr. Nat. Hist. Lepid. N. Am. 3(2): 116, pl. 11, figs. 9 ♂ D, 11 ♂ V, 13 ♀ D; ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, fig. 4.  
**Original Combination:** [*Philotes battoides*] race *bernardino*  
**Type Locality:** "Camp Baldy, S. Bernardino Mts."; corrected to "San Gabriel Mts." by Shields (1977), J. Res. Lepid. 16(1): 48. [San Bernardino County, California]  
**Types:** Syntypes in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 37 ♂ V.  
= ♂ "baldyensis" Gunder, 1925  
Entomol. News 36(1): 3, no. 2, pl. 1, fig. M ♀ V ("Holotype").  
**Original Combination:** *Philotes battoides* var. *bernardino* ab. ♀ *baldyensis*  
**Type Locality:** "Camp Baldy, San Bernardino County, California"  
**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 55, fig. 32 ♀ V.
- b. **Euphilotes bernardino inyomontana** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 223-224, figs. 55 ♂ D, 56 ♂ V (holotype); 57 ♀ D, 58 ♀ V.  
**Original Combination:** *Euphilotes bernardino inyomontana*  
**Type Locality:** "California: Inyo Co.; Panamint Range, S end; ridge just above Wood Canyon, 1,500-1,700 m elev., 1.3 km NNW of Manly Peak"  
**Types:** Holotype in LACM.
- c. **Euphilotes bernardino minuta** Austin, 1998  
Syst. W. N. Am. Butts. (45): 549-550, figs. 53 ♂ D, 54 ♂ V (holotype); 55 ♀ D, 56 ♀ V.  
**Original Combination:** *Euphilotes bernardino minuta*  
**Type Locality:** "Nevada: White Pine County; Spring Valley, Baking Powder Flat, 1 mile south of Blind Spring, 1762 m, T11N R67E S26 on USGS Wheeler Peak, Nev. quadrangle, 15' series"  
**Types:** Holotype in MGCL.
- d. **Euphilotes bernardino martini** (Mattoni, 1954)  
Bull. South. Calif. Acad. Sci. 53(3): 157, 159, no. 1, pl. 43, fig. 3 ♂ D (holotype), 4 ♀ V.  
**Original Combination:** *Philotes battoides martini*  
**Type Locality:** "Oatman, Mohave Co., Arizona"  
**Types:** Holotype in USNM.
530. **Euphilotes ellisii** (Shields, 1975)  
Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 225-227, treated this as a species-level taxon.
- a. **Euphilotes ellisii ellisii** (Shields, 1975)  
Bull. Allyn Mus. (28): 12-13, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Shijimiaeoides battoides ellisii*



**Type Locality:** "Colorado [sic]: Mesa Co., W. Creek, Unaweep Canyon, 5400', 6 mi E. of Gateway"

**Types:** Holotype in MGCL.

b. *Euphilotes ellisii basinensis* Austin, 1998

Syst. W. N. Am. Butts. (45): 551, figs. 61 ♂ D, 62 ♂ V (holotype); 63 ♀ D, 64 ♀ V.

**Original Combination:** *Euphilotes ellisii basinensis*

**Type Locality:** "Nevada: Lyon County; Pine Nut Mountains, Eldorado Canyon, 3-4 miles southeast of Dayton, 1524 m, T15N R22E S31 on USGS Dayton, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

c. *Euphilotes ellisii euromojavensis* Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (16): 225-226, figs. 59 ♂ D, 60 ♂ V (holotype); 61 ♀ D, 62 ♀ V.

**Original Combination:** *Euphilotes ellisii euromojavensis*

**Type Locality:** "California: San Bernardino Co.; Mid Hills; north facing slope of Macedonia Canyon, 1,400-1,500 m, 1.0 km SE of peak of Columbia Mt.; SE 1/4 of S 34, T 12N, R 14E"

**Types:** Holotype in LACM.

d. *Euphilotes ellisii awawatz* Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (16): 226-227, figs. 63 ♂ D, 64 ♂ V (holotype); 65 ♀ D, 66 ♀ V.

**Original Combination:** *Euphilotes ellisii awawatz*

**Type Locality:** "California, San Bernardino Co.; northeastern Mojave Desert; Awawatz Mountains, 5 Km west of Old Mormon Spring, 1,100 m"

**Types:** Holotype in LACM.

531. *Euphilotes baueri* (Shields, 1975)

Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 225, treated this as a species-level taxon.

a. *Euphilotes baueri baueri* (Shields, 1975)

Bull. Allyn Mus. (28): 15-16, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Shijimiaeoides battooides baueri*

**Type Locality:** "California: Inyo Co., W side Gilbert Pass, 6200'"

**Types:** Holotype in MGCL.

b. *Euphilotes baueri orientis* Austin, 1998

Syst. W. N. Am. Butts. (45): 550, figs. 57 ♂ D, 58 ♂ V (holotype); 59 ♀ D, 60 ♀ V.

**Original Combination:** *Euphilotes baueri orientis*

**Type Locality:** "Nevada: Lincoln County; Bristol Mountains, U.S. highway 93, 12.5 road miles north of Pioche, 1826 m, T3N R66E (unsectioned) on USGS Bristol Range SE, Nev., 7.5' quadrangle"

**Types:** Holotype in MGCL.

*enoptes* complex Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (16): 209.

532. *Euphilotes mojave* (F. Watson & W. Comstock, 1920)

Mattoni (1989), J. Res. Lepid. 27(3/4): 174-175, considered this a species-level taxon, a status corroborated by Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 213.

a. *Euphilotes mojave mojave* (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 455-456.

**Original Combination:** *Philotes enoptes mojave*

**Type Locality:** "Mojave Desert, California"; suggested to be "probably around Randsburg, Kern Co., California" by Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 213.

**Types:** Holotype in AMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 44 ♂ V.

b. *Euphilotes mojave virginensis* Austin, 1998

Syst. W. N. Am. Butts. (45): 556, figs. 93 ♂ D, 94 ♂ V (holotype); 95 ♀ D, 96 ♀ V.

**Original Combination:** *Euphilotes mojave virginensis*

**Type Locality:** "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1341 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"

**Types:** Holotype in MGCL.

533. *Euphilotes enoptes* (Boisduval, 1852)

a. *Euphilotes enoptes enoptes* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 298-299, no. 36; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1948 ♂ D&V, 1949 ♀ D&V.

**Original Combination:** *Lycaena enoptes*

**Type Locality:** "les lieux arides"; defined as "Hwy. 70 between Gansner Bar and Queen Lily Campground near Belden, North Fork Feather River, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15, figs. 78 ♂ D, 79 ♂ V. Male genitalia of this specimen figured by R. Williams (1918), Entomol. News 29(3): pl. 4.

b. *Euphilotes enoptes aridorum* Austin, 1998

Syst. W. N. Am. Butts. (45): 554-555, figs. 85 ♂ D, 86 ♂ V (holotype); 87 ♀ D, 88 ♀ V.

**Original Combination:** *Euphilotes enoptes aridorum*

**Type Locality:** "Nevada: Washoe County; Peavine Peak Road at U.S. 395, 1646 m, T20N R19E S7 on USGS Verdi, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

- c. **Euphilotes enoptes bayensis** (Langston, 1964)  
J. Lepid. Soc. 17(4): 208-209, fig. 2 ♂ genitalia, figs. 5C ♂ D&V (holotype), ♀ D&V, 5D ♂&♀, D&V.  
**Original Combination:** *Philotes enoptes bayensis*  
**Type Locality:** "China Camp, near Point San Pedro, Marin County, California"  
**Types:** Holotype in CAS.
- d. **Euphilotes enoptes tildenii** (Langston, 1964)  
J. Lepid. Soc. 17(4): 212-215, fig. 3 ♂ genitalia, figs. 5E ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Philotes enoptes tildenii*  
**Type Locality:** "Del Puerto Canyon, 22 mi. W. of Patterson, Stanislaus County, California"  
**Types:** Holotype in CAS.
- e. **Euphilotes enoptes arenacola** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 210-211, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.  
**Original Combination:** *Euphilotes enoptes arenacola*  
**Type Locality:** "California: Monterey County: Marina (sand dunes), 5 miles north of Monterey"  
**Types:** Holotype in LACM.
- f. **Euphilotes enoptes smithi** (Mattoni, 1954)  
Bull. South. Calif. Acad. Sci. 53(3): 160-161, no. 2, pl. 43, figs. 8 ♂ D (holotype), 9 ♀ V.  
**Original Combination:** *Philotes enoptes smithi*  
**Type Locality:** "Burns Creek, State Highway 1, Monterey Co., Calif." [California]  
**Types:** Holotype in USNM.
- g. **Euphilotes enoptes dammersi** (J. A. Comstock & Henne, 1933)  
Bull. South. Calif. Acad. Sci. 32(1): 24-25.  
**Original Combination:** *Philotes enoptes dammersi*  
**Type Locality:** "Snow Creek, Riverside Co., Calif." [California]  
**Types:** Holotype in USNM.
- h. **Euphilotes enoptes cryptorufes** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 211-212, figs. 19 ♂ D, 20 ♂ V (holotype); 21 ♀ D, 22 ♀ V.  
**Original Combination:** *Euphilotes enoptes cryptorufes*  
**Type Locality:** "California: Riverside Co.; S facing slopes of Pyramid Mt. in the San Jacinto Mts., 1,500-2,100 m"  
**Types:** Holotype in LACM.
- i. **Euphilotes enoptes opacapulla** Austin, 1998  
Syst. W. N. Am. Butts. (45): 554, figs. 81 ♂ D, 82 ♂ V (holotype); 83 ♀ D, 84 ♀ V.  
**Original Combination:** *Euphilotes enoptes opacapulla*  
**Type Locality:** "Nevada: Clark County; Newberry Mountains, Grapevine Canyon, 320 m, T31S R66E S21 on USGS Davis Dam, Nev.-Ariz.-Calif. 15' quadrangle"  
**Types:** Holotype in MGCL.
- j. **Euphilotes enoptes primavera** Austin, 1998  
Syst. W. N. Am. Butts. (45): 555, figs. 89 ♂ D, 90 ♂ V (holotype); 91 ♀ D, 92 ♀ V.  
**Original Combination:** *Euphilotes enoptes primavera*  
**Type Locality:** "Nevada: Mineral County; Wassuk Range, U.S. highway 95, 9.0 road miles south of Schurz, Penrod Canyon, 1463 m, T11N R29E S18 on Schurz, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- k. **Euphilotes enoptes langstoni** (Shields, 1975)  
Bull. Allyn Mus. (28): 23-24, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.  
**Original Combination:** *Shijimiacoides enoptes langstoni*  
**Type Locality:** "California: Mono Co., 1.6 rd. mi. N of Mono-Inyo Co. line, Hwy. 395, ca. 6 rd. mi. S Sherwin Summit, ca. 5700"  
**Types:** Holotype in MGCL.
- 534. **Euphilotes columbiae** (Mattoni, 1954)  
Bull. South. Calif. Acad. Sci. 53(3): 162-163, no. 3, pl. 43, figs. 7 ♂ D (holotype), 11 ♀ V.  
**Original Combination:** *Philotes enoptes columbiae*  
**Type Locality:** "Columbia River near Brewster, Okanogan Co., Wash." [Washington]  
**Types:** Holotype in USNM.  
A. Warren (2005), Butts. Ore.: 182-184, treated this as a species-level taxon.
- 535. **Euphilotes ancilla** (W. Barnes & McDunnough, 1918)  
Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (16): 213-215, and A. Warren (2005), Butts. Ore.: 184-185, treated this as a species-level taxon.
- a. **Euphilotes ancilla ancilla** (W. Barnes & McDunnough, 1918)  
Contrib. Nat. Hist. Lepid. N. Am. 4(2): 79; figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 11, figs. 2 ♂ D, 5 ♂ V, ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, fig. 2 (as *Philotes battoides glaucon*).  
**Original Combination:** [*Philotes enoptes*] *ancilla*  
**Type Locality:** "Eureka, Utah" [Juab County]  
**Types:** Holotype in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, figs. 41 ♂ V, 42 ♀ D.
- b. **Euphilotes ancilla giulianii** Pratt & J. Emmel, 1998  
Syst. W. N. Am. Butts. (16): 214-215, figs. 27 ♂ D, 28 ♂ V (holotype); 29 ♀ D, 30 ♀ V.  
**Original Combination:** *Euphilotes ancilla giulianii*



**Type Locality:** “Nevada: Nye Co.; Grapevine Mountains; ridge 0.8 km southeast of Wahguyhe Peak 2,300-2,300 m”

**Types:** Holotype in LACM.

c. ***Euphilotes ancilla gilvatunica*** Austin, 1998

Syst. W. N. Am. Butts. (45): 553, figs. 77 ♂ D, 78 ♂ V (holotype); 79 ♀ D, 80 ♀ V.

**Original Combination:** *Euphilotes ancilla gilvatunica*

**Type Locality:** “Nevada: Washoe County; Nevada State Route 341, 3.3 road miles east of US 395, 1525 m, T18N R20E S5 on USGS Steamboat, Nev. 15’ quadrangle”

**Types:** Holotype in MGCL.

d. ***Euphilotes ancilla shieldsi*** Austin, 1998

Syst. W. N. Am. Butts. (45): 553, figs. 73 ♂ D, 74 ♂ V (holotype); 75 ♀ D, 76 ♀ V.

**Original Combination:** *Euphilotes ancilla shieldsi*

**Type Locality:** “Nevada: Esmeralda County; White Mountains, Trail Canyon Road, 9.5 road miles west of Nevada state route 264, 2286 m, T1S R34E S6 on USGS Davis Mountain, Nev.-Calif. 15’ quadrangle”

**Types:** Holotype in MGCL.

e. ***Euphilotes ancilla purpura*** Austin, 1998

Syst. W. N. Am. Butts. (45): 552, figs. 69 ♂ D, 70 ♂ V (holotype); 71 ♀ D, 72 ♀ V.

**Original Combination:** *Euphilotes ancilla purpura*

**Type Locality:** “Nevada: Clark County; Spring Mountains, Willow Creek, 1829 m, T18S R55E S2 on USGS Mt. Stirling quadrangle, 15’ series”

**Types:** Holotype in MGCL.

f. ***Euphilotes ancilla pseudointermedia*** Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (16): 214, figs. 23 ♂ D, 24 ♂ V (holotype); 25 ♀ D, 26 ♀ V.

**Original Combination:** *Euphilotes ancilla pseudointermedia*

**Type Locality:** “California; Nevada Co.; Castle Peak near Donner Pass, 2,700 m”

**Types:** Holotype in LACM.

*rita* complex Pratt & J. Emmel, 1998

Syst. W. N. Am. Butts. (17): 271.

536. ***Euphilotes rita*** (W. Barnes & McDunnough, 1916)

a. ***Euphilotes rita rita*** (W. Barnes & McDunnough, 1916)

Can. Entomol. 48(7): 223-224; paratypes figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 11, figs. 3 ♂ D, 6 ♂ V; ♂ genitalia figured by W. Barnes and McDunnough (1917), Contr. Nat. Hist. Lepid. N. Am. 3(4): pl. 17, figs. 5, 6.

**Original Combination:** *Lycaena rita*

**Type Locality:** “S. Arizona...Santa Rita Mts., Ariz....Rio Verde Mts., Ariz.”; defined as “Ramsey Canyon, Huachuca Mts., Cochise Co., Arizona” by Shields (1975), Bull. Allyn Mus. (28): 16.

**Types:** Syntypes, excluding the specimen from the Rio Verde Mountains, in USNM; paratypes figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, figs. 39 ♂ D, 40 ♂ V.

b. ***Euphilotes rita coloradensis*** (Mattoni, [1966])

J. Res. Lepid. 4(2): 88, 90, figs. 1, col. 2 top ♂ D (holotype), 2nd ♀ D, 3rd ♂ V (holotype), bottom ♀ V, figs. 3G ♂ genitalia ventral, 3H ♂ genitalia lateral, 3I aedeagus, 3J ♀ genitalia ventral, 3K ♀ genitalia ventral, 3L ♀ genitalia lateral, 7 1st and 2nd rows ♂ & ♀ V.

**Original Combination:** *Philotes rita coloradensis*

**Type Locality:** “south Kendrick, Lincoln County, Colorado”; holotype from “7 mi. S of Kendrick.”

**Types:** Holotype in LACM.

537. ***Euphilotes pallescens*** (Tilden & Downey, 1955)

Pratt and J. Emmel (1998), Syst. W. N. Am. Butts. (17): 271, treated this as a species-level taxon.

a. ***Euphilotes pallescens emmeli*** (Shields, 1975)

Bull. Allyn Mus. (28): 16-17, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

**Original Combination:** *Shijimiaeoides rita emmeli*

**Type Locality:** “Utah: Emery Co., summit of road to 12 mi. E of Little Flat Top, 5500’, T26S, R13E, ca. 10-11 mi SE of Utah Hwy. 24”

**Types:** Holotype in MGCL.

b. ***Euphilotes pallescens pallescens*** (Tilden & Downey, 1955)

Bull. South. Calif. Acad. Sci. 54(1): 25-26, pl. 11 figs. 1 ♂ valve, 3 ♂ genitalia (holotype), pl. 12 figs. 4 ♂ D (holotype), 5 ♀ D, 6 ♀ V.

**Original Combination:** *Philotes pallescens*

**Type Locality:** “Little Granite Mountain, Dugway Proving Grounds, Tooele County, Utah”

**Types:** Holotype in CAS.

c. ***Euphilotes pallescens mattonii*** (Shields, 1975)

Bull. Allyn Mus. (28): 20, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Shijimiaeoides rita mattonii*

**Type Locality:** “Nevada: Elko Co., ridge 4 air mi. W of Charleston Reservoir, 6600’, SW corner of T43N, R57E, SW of Jarbidge Mts.”

**Types:** Holotype in MGCL.

d. ***Euphilotes pallescens arenamontana*** Austin, 1998

Syst. W. N. Am. Butts. (45): 556-557, figs. 97 ♂ D, 98 ♂ V (holotype); 99 ♀ D, 100 ♀ V.



**Original Combination:** *Euphilotes pallescens arenamontana*

**Type Locality:** "Nevada: Churchill County; U. S. Highway 50, Sand Mountain, 1310 m, T17N R32E S28 on USGS Fourmile Flat, Nev. 7.5' quadrangle"

**Types:** Holotype in MGCL.

e. ***Euphilotes pallescens ricei* Austin, 1998**

Syst. W. N. Am. Butts. (70): 815, figs. 1 top row left ♂ D, 2 top row left ♂ V (holotype), 1 top row right ♀ D, 2 top row right ♀ V.

**Original Combination:** *Euphilotes pallescens ricei*

**Type Locality:** "Nevada: Humboldt County; Sand Pass Road, about 15 miles northwest of Winnemucca, just west of Sand Pass, T38N R37E in an area dominated by sand dunes"

**Types:** Holotype in MGCL.

f. ***Euphilotes pallescens calneva* J. Emmel & T. Emmel, 1998**

Syst. W. N. Am. Butts. (18): 277-278, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Euphilotes pallescens calneva*

**Type Locality:** "California: Lassen County; SE Honey Lake Valley; 4.1 air mi. W. and 1.3 air mi. S. of Calneva railroad stop, 4120 ft. elev. (ca. 2 air mi. N. of peak of Turtle Mtn.); S5, T26N, R17E"

**Types:** Holotype in LACM.

g. ***Euphilotes pallescens confusa* Pratt & J. Emmel, 1998**

Syst. W. N. Am. Butts. (17): 271-272, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Euphilotes pallescens confusa*

**Type Locality:** "California: Inyo Co., Rest Spring, 6,640', Cottonwood Mts., Death Valley Nat. Monument"

**Types:** Holotype in LACM.

h. ***Euphilotes pallescens elvirae* (Mattoni, [1966])**

J. Res. Lepid. 4(2): 94, 95, fig. 1, col. 4, top ♂ D (holotype), 2nd ♂ D, 3rd ♂ V (holotype), bottom ♀ V, figs. 5R ♂ genitalia ventral, 5S ♂ genitalia ventral, 5T ♂ aedeagus, 5U ♂ genitalia lateral, 5V ♀ genitalia ventral, 5W ♀ genitalia lateral, 7 2nd and 3rd rows ♂ & ♀ V.

**Original Combination:** *Philotes rita elvirae*

**Type Locality:** "3.5 miles southwest of Pearblossom, L. A. Co., California" [Los Angeles County]

**Types:** Holotype in LACM.

538. ***Euphilotes spaldingi* (W. Barnes & McDunnough, 1917)**

a. ***Euphilotes spaldingi spaldingi* (W. Barnes & McDunnough, 1917)**

Contr. Nat. Hist. Lepid. N. Am. 3(4): 215-216, 262, 264, pl. 16, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, pl. 17, fig. 6 ♂ genitalia.

**Original Combination:** *Philotes spaldingi*

**Type Locality:** "Provo, Utah...Silver Lake, Utah...Stockton, Utah" defined as "Provo, Utah" by Shields (1975), Bull. Allyn Mus. (28): 21. [Utah County]

**Types:** Syntypes in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 46 ♂ V.

b. ***Euphilotes spaldingi pinjuna* Scott, 1981**

Papilio (n.s.) 1: 6.

**Original Combination:** *Euphilotes spaldingi pinjuna*

**Type Locality:** "Shilling's Spring, Conejos Co., Colo." [Colorado]

**Types:** Holotype in LACM.

Genus ***Glaucopsyche* Scudder, 1872**

4th Ann. Rep. Peabody Acad. Sci. (1871): 54. Type-species: *Polyommatus lygdamus* E. Doubleday, 1841, Entomol. 1 (14): 209-210, by original designation.

= *Phaedrotes* Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 115-116, no. 20. Type-species: *Lycaena catalina* Reakirt, 1866, Proc. Acad. Nat. Sci. Philad. [18] (3): 244, no. 16 (= *Lycaena sagittigera* C. Felder & R. Felder, 1865, Reise Novara (2): 281-282, no. 357, pl. 35, figs. 20, 21: a subspecies of *Lycaena piasus* Boisduval, 1852, Annls. Soc. Entomol. Fr. (2) 10(2): 299, no. 37), by original designation. F. Brown (1971), J. Lepid. Soc. 25(4): 240-246, determined this synonymy.

= *Apelles* Hemming, 1931

Trans. Entomol. Soc. Lond. 79(2): 323-324. Type-species: *Polyommatus melanops* Boisduval, [1828], Europ. Lepid. Ind. Meth.: 13, by original designation.

= *Bajluana* Korshunov & Ivonin, 1990

Nov. Malozvest. Vid. Faun. Sib. 22: 69. Type-species: *Lycaena argali* Elwes, 1899, Trans. Entomol. Soc. Lond. (4) 1899[47] (3): 328, 329, by original designation.

539. ***Glaucopsyche piasus* (Boisduval, 1852)**

a. ***Glaucopsyche piasus umbrosa* J. Emmel, T. Emmel & Mattoon, 1998**

Syst. W. N. Am. Butts. (14): 172-173, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Glaucopsyche piasus umbrosa*

**Type Locality:** "California: San Diego County; Laguna Mountains; slope ca. 0.2 air mile east of Big Laguna Lake, 5450' elevation; S.10, T.15S., R.5E."

**Types:** Holotype in LACM.

b. ***Glaucopsyche piasus sagittigera* (C. Felder & R. Felder, 1865)**

Reise Novara (2): 281-282, no. 357, pl. 35, figs. 20 ♂ D, 21 ♂ V.

**Original Combination:** *Lycaena sagittigera*

**Type Locality:** "Sonora"; suggested to be "vicinity of Los Angeles, California" by F. Brown (1971), J. Lepid. Soc. 25(4): 242; further defined as "Glendale, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 90.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts.: 90, figs. 25 ♀ D, 26 ♀ V.

= *rhaea* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 51, no. 33; figured by Oberthür (1913), Etud. Lépid. comp. 9(1): pl. 239, figs. 2078 ♂ D&V, 2079 ♀ D&V.

**Original Combination:** *Lycaena Rhaea*

**Type Locality:** "dans l'extreme sud aux environs de Los Angeles"; defined as "Glendale, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30, figs. 222 ♂ D, 223 ♂ V.

c. ***Glaucopsyche piasus gabrielina*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (14): 174-175, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Glaucopsyche piasus gabrielina*

**Type Locality:** "California: Los Angeles County; ridge running east from Mt. Islip, WNW of Windy Gap, 7,600-8000' elevation, San Gabriel Mts.; S.16, T.3N, R.9W"

**Types:** Holotype in LACM.

= ⚔ "gorgonioi" (Gunder, 1925)

Entomol. News 36(1): 4, pl. 1, fig. P ♂ V ("Holotype").

**Original Combination:** *Phaedrotes piasus* var. *catalina* ab. ♂ *gorgonioi*

**Type Locality:** "San Gorgonio Mountain, San Bernardino County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 56, fig. 23 ♂ V.

d. ***Glaucopsyche piasus excubita*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (14): 173-174, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Glaucopsyche piasus excubita*

**Type Locality:** "California: Inyo County; Bishop Creek...vicinity of Andrews Camp...known as Four Jeffrey Campground"

**Types:** Holotype in LACM.

e. ***Glaucopsyche piasus piasus*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 299, no. 37; figured by Oberthür (1913), Etud. Lépid. comp. 9(1): pl. 237, fig. 1950 ♂ D&V.

**Original Combination:** *Lycaena Piasus*

**Type Locality:** "Californie" implied from the title of the paper; suggested to be "probably the vicinity of San Francisco" by F. Brown (1971), J. Lepid. Soc. 25(4): 242; defined as "Hwy. 70 at Soda Creek, E. Branch North Fork Feather River Canyon, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16, figs. 81 ♂ D, 82 ♂ V.

= *catalina* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. [18](3): 244, no. 16.

**Original Combination:** *Lycaena catalina*

**Type Locality:** "California"

**Types:** Lectotype in FMNH, designated by F. Brown (1971), J. Lepid. Soc. 25(4): 242, figs. 16 ♂ D, 17 ♂ V.

= *viaca* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 209, no. 7; figured by W. H. Edwards (1870), Butts. N. Am. [1](5): pl. *Lycaena* 2, figs. 26 ♂ D, 27 ♂ V.

**Original Combination:** *Lycaena Viaca*

**Type Locality:** "Sierra Nevada, Cal."; defined as "Lake Tahoe, Placer County, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 410-411.

**Types:** Holotype in AMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 410, fig. 24 ♂ D&V.

= ⚔ *lorquini* (Behr, 1867)

Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 280, no. 7.

**Original Combination:** *Lycaena Lorquini*

**Type Locality:** "California" implied from the title of the paper, "in the higher Sierra Nevada" from the description.

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire. No neotype has been designated since this name is a homonym.

Preoccupied by *Lycaena lorquini* Herrich-Schäffer, 1850, Syst. Bearb. Schmett. Europ. 6: 25.

f. ***Glaucopsyche piasus toxema*** F. Brown, 1971

J. Lepid. Soc. 25(4): 245, figs. 10 ♂ V, 13 ♂ D, 14 ♂ V (holotype), 15 ♀ D.

**Original Combination:** *Glaucopsyche piasus toxema*

**Type Locality:** "Garnett Valley, Summerland, B. C." [British Columbia]

**Types:** Holotype in CNC.

g. ***Glaucopsyche piasus nevada*** F. Brown, 1975

Proc. Entomol. Soc. Wash. 77(4): 501-503, fig. 1 ♂ D&V (holotype).

**Original Combination:** *Glaucopsyche (Phaedrotes) piasus nevada*

**Type Locality:** "Bob Scott Campground in the Toiyabe National Forest, Lander County, Nevada, 7300-7500 feet"

**Types:** Holotype in USNM.

h. ***Glaucopsyche piasus daunia*** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 266, 272, no. 10.

**Original Combination:** *Lycaena Daunia*



- Type Locality:** "Colorado"; defined as "Turkey Creek, Jefferson Co., Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 412.
- Types:** Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 412, fig. 25 ♂ D&V.
540. **Glaucopsyche lygdamus** (E. Doubleday, 1841)
- a. **Glaucopsyche lygdamus lygdamus** (E. Doubleday, 1841)  
Entomol. 1(14): 209-210.  
**Original Combination:** *Polyommatus Lygdamus*  
**Type Locality:** "pine forests of North America, especially Georgia" A. Clark (1948), Proc. Entomol. Soc. Wash. 50(7): 176, suggested that the original specimens were collected by John Abbot in the "vicinity of his home at Jacksonboro, Screven Co., Georgia"; Klots (1951), Field Guide Butts. N. Am.: 168, stated "Screven Co., Georgia." Drawings by John Abbot in the Natural History Museum in London indicate that he encountered this species long before his brief residence in Screven County, so Burke County, Georgia, is a more likely locality (Calhoun pers. comm. 2006).  
**Types:** Holotype is lost or unrecognizable, not in BMNH or UMO.  
= *nittanyensis* F. Chermock, 1945  
Can. Entomol. 76(11): 216.  
**Original Combination:** *Glaucopsyche lygdamus nittanyensis*  
**Type Locality:** "Bear Meadows, near State College, Pa." [Centre County, Pennsylvania]  
**Types:** Holotype in CMNH.  
= *boydi* A. Clark, 1948  
Proc. Entomol. Soc. Wash. 50(7): 176-177.  
**Original Combination:** *Glaucopsyche lygdamus boydi*  
**Type Locality:** "Ice Mountain, Hampshire Co., West Virginia"  
**Types:** Holotype (#58715) in USNM; figured by A. Clark (1940), Expl. Field Work Smithson. Inst. 1939: fig. 70, left ♂ D, middle ♂ V (holotype), right ♀ V.
- b. **Glaucopsyche lygdamus mildredae** F. Chermock, 1945  
Can. Entomol. 76(11): 216.  
**Original Combination:** *Glaucopsyche lygdamus mildredae*  
**Type Locality:** "small island off Baddeck...Cape Breton Island, N. S." [Nova Scotia]  
**Types:** Holotype in CNC.
- c. **Glaucopsyche lygdamus couperi** Grote, 1873  
Bull. Buffalo Soc. Nat. Sci. 1(4): 185.  
**Original Combination:** *Glaucopsyche Couperi*  
**Type Locality:** "Island of Anticosti, which lies in the Gulf of St. Lawrence, between latitudes 49° and 50°" implied from the introduction. [Quebec]  
**Types:** Location of type(s) not known.  
= ♂ "mcdunnoughi" Gunder, 1927  
Can. Entomol. 59(12): 282, no. 4, pl. A, figs. 4 ♂ D, 4a ♂ V ("Holotype").  
**Original Combination:** *Glaucopsyche lygdamus* race *couperi* tr. f. *mcdunnoughi*  
**Type Locality:** "Sask., Can." [Saskatchewan]  
**Types:** "Holotype" in CNC.  
This name was spelled "macdunnoughi" by dos Passos (1964), Mem. Lepid. Soc. (1): 68; an unjustified emendation.
- d. **Glaucopsyche lygdamus afra** (W. H. Edwards, [1884])  
Can. Entomol. 15(11): 211.  
**Original Combination:** *Lycaena Afra*  
**Type Locality:** "Deer River country"; neotype from "vic. Brandon, Manitoba."  
**Types:** Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 417, fig. 27 ♂ D&V.
- e. **Glaucopsyche lygdamus jacki** D. Stallings & Turner, 1947  
J. Kansas Entomol. Soc. 20(3): 93-94.  
**Original Combination:** *Glaucopsyche lygdamus jacki*  
**Type Locality:** "Barber County, Kansas"  
**Types:** Holotype in USNM.
- f. **Glaucopsyche lygdamus oro** (Scudder, 1876)  
Can. Entomol. 8(1): 23, no. 5.  
**Original Combination:** *N[omiades]. Oro*  
**Type Locality:** "Colorado"; syntype from "Fair Play Colo." [Fairplay, Park County, Colorado]  
**Types:** Syntype (#16010) in MCZ.  
= ♂ "leussleri" Gunder, 1927  
Can. Entomol. 59(12): 283, no. 8, pl. A, fig. 8 ♂ V ("Holotype").  
**Original Combination:** *Glaucopsyche lygdamus* race *oro* tr. f. *leussleri*  
**Type Locality:** "Harrisburg, Banner Co., Neb." [Nebraska]  
**Types:** Holotype in OSU.
- g. **Glaucopsyche lygdamus arizonensis** McDunnough, 1936  
Can. Entomol. 68(5): 113.  
**Original Combination:** *Glaucopsyche lygdamus arizonensis*  
**Type Locality:** "White Mts., Ariz." [Arizona]  
**Types:** Holotype (#4089) in CNC.



- h. ***Glaucopsyche lygdamus minipunctum*** Austin, 1998  
Syst. W. N. Am. Butts. (45): 557-558, figs. 105 ♂ D, 106 ♂ V (holotype); 107 ♀ D, 108 ♀ V.  
**Original Combination:** *Glaucopsyche lygdamus minipunctum*  
**Type Locality:** "Nevada: Clark County; Virgin Mountains, Cabin Canyon, 1350 m, T15S R71E S4 on USGS Virgin Peak, Nev.-Ariz. 15' quadrangle"  
**Types:** Holotype in MGCL.
- i. ***Glaucopsyche lygdamus deserticola*** Austin & J. Emmel, 1998  
Syst. W. N. Am. Butts. (42): 509-510, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.  
**Original Combination:** *Glaucopsyche lygdamus deserticola*  
**Type Locality:** "Nevada: Clark County; Spring Mountains, Cottonwood Pass Road, 0.6-1.8 road miles south of Nevada state route 160 (Pahrump Road), 1340 m, T23S R58E S2 and T22S R58E S35 on the USGS Goodsprings, Nev. 15' quadrangle"  
**Types:** Holotype in NVMC.
- j. ***Glaucopsyche lygdamus australis*** F. Grinnell, 1917  
Can. Entomol. 49(10): 350-351.  
**Original Combination:** *Glaucopsyche lygdamus australis*  
**Type Locality:** "Pasadena" [Los Angeles County, California]  
**Types:** Holotype in AMNH.  
= *♂"sinepunctata"* J. A. Comstock, 1926  
Bull. South. Calif. Acad. Sci. 25(1): 28.  
**Original Combination:** [*Glaucopsyche lygdamus behrii* race *australis*] ab. *sinepunctata*  
**Type Locality:** "Mint Canyon, Los Angeles County, Calif." [California]  
**Types:** "Holotype" in LACM.
- k. ***Glaucopsyche lygdamus palosverdesensis*** E. Perkins & J. Emmel, 1977  
Proc. Entomol. Soc. Wash. 79(3): 468-471, figs. 1-5 ♂ D (holotype), 1-6 ♂ V, 1-7 ♀ D, 1-8 ♀ V.  
**Original Combination:** *Glaucopsyche lygdamus palosverdesensis*  
**Type Locality:** "Rancho Palos Verdes, Palos Verdes Peninsula, Los Angeles Co., California"  
**Types:** Holotype in USNM.
- l. ***Glaucopsyche lygdamus sabulosa*** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (14): 171-172, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Glaucopsyche lygdamus sabulosa*  
**Type Locality:** "California: Monterey County; sand dunes west of intersection of Palm Avenue and Lake Drive, west of marina, 60-100' elevation"  
**Types:** Holotype in LACM.
- m. ***Glaucopsyche lygdamus xerces*** (Boisduval, 1852) †  
Annls. Soc. Entomol. Fr. (2)10(2): 296, no. 31; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1939 ♂ D&V, 1940 ♀ D&V.  
**Original Combination:** *Lycaena Xerces*  
**Type Locality:** "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13, figs. 57 ♂ D, 58 ♂ V.  
Scott (1986), Butts. N. Am.: 399, no. 395, treated this as a subspecies of *G. lygdamus*, an arrangement followed by various subsequent authors.  
= *antiacis* (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2)10(2): 300, no. 39; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, fig. 1951 ♂ D&V.  
**Original Combination:** *Lycaena Antiacis*  
**Type Locality:** "Environs de San Francisco"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16, figs. 84 ♂ D, 85 ♂ V.  
= *behrii* (W. H. Edwards, 1862)  
Proc. Acad. Nat. Sci. Philad. 14(5): 224, no. 6.  
**Original Combination:** *Lycaena Behrii*  
**Type Locality:** "California"; defined as "vic. San Francisco, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 415. [San Francisco County]  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 417, fig. 27 ♂ D&V.  
= *mertila* (W. H. Edwards, 1866)  
Proc. Entomol. Soc. Philad. 6(2): 206, no. 5.  
**Original Combination:** *Lycaena Mertila*  
**Type Locality:** "California"; defined as "vic. San Francisco, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 418. [San Francisco County]  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 65, fig. 43 ♀ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 418, fig. 28 ♀ D&V.  
= *polyphemus* (Boisduval, 1869)  
Annls. Soc. Entomol. Belg. 12: 49, no. 29; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, fig. 2071 ♂ D&V.  
**Original Combination:** *Lycaena Polyphemus*

- Type Locality:** "Californie" implied from the title of the paper; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29.
- Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29, figs. 210 ♂ D, 211 ♂ V.
- = ♀ "huguenini" Gunder, 1925  
Entomol. News 36(1): 3, no. 4, pl. 1, fig. O ♂ V ("Holotype").  
**Original Combination:** *Glaucopsyche xerces* form *mertila* ab. ♂ *huguenini*  
**Type Locality:** "San Francisco, California" [San Francisco County]  
**Types:** "Holotype" in LACM.
- = ♀ "barnesi" Gunder, 1927  
Can. Entomol. 59(12): 282, no. 2, pl. A, figs. 2 ♂ V ("Holotype"), 2a ♀ V.  
**Original Combination:** *Glaucopsyche xerces* form *mertila* tr. f. *barnesi*  
**Type Locality:** "San Francisco, Calif." [San Francisco County, California]  
**Types:** "Holotype" in USNM.
- = ♀ "intermedia" F. Chermock, 1929  
Bull. Brooklyn Entomol. Soc. 24(1): 20.  
**Original Combination:** *Glaucopsyche xerces* var. *intermedia*  
**Type Locality:** "Lone Mountain, San Francisco, Calif." [San Francisco County, California]  
**Types:** "Holotype" in MGCL.
- n. ***Glaucopsyche lygdamus pseudoxerces*** J. Emmel & T. Emmel, 1998  
Syst. W. N. Am. Butts. (22): 308, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Glaucopsyche lygdamus pseudoxerces*  
**Type Locality:** "California: Sant Barbara County; Santa Rosa Island; Acapulco Canyon, 100-450' elevation (2.9-3.5 air miles W, 0.75-1.9 air miles S of 1,574' Soledad Mountain peak)"  
**Types:** Holotype in LACM.
- o. ***Glaucopsyche lygdamus incognita*** Tilden 1974  
J. Res. Lepid. 12(4): 213-214.  
**Original Combination:** *Glaucopsyche lygdamus incognitus*  
**Type Locality:** "Alum Rock Park, Santa Clara County, Calif." [California]  
**Types:** Holotype in CAS.  
= ♀ "sternitzkyi" Gunder, 1929  
Bull. Brooklyn Entomol. Soc. 24(4): 325-326, pl. 31, fig. 2 ♂ D&V ("Holotype").  
**Original Combination:** *Glaucopsyche lygdamus* race *behrii* tr. f. *sternitzkyi*  
**Type Locality:** "Fairfax, Marin Co., Calif." [California]  
**Types:** "Holotype" in AMNH.
- p. ***Glaucopsyche lygdamus orcus*** (W. H. Edwards, 1869)  
Trans. Am. Entomol. Soc. 2(4): 376.  
**Original Combination:** *Lycaena Orcus*  
**Type Locality:** not stated; suggested to be "Storey County, Nevada" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 420.  
**Types:** Holotype in CMNH; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 419, fig. 29 ♂ D&V.
- q. ***Glaucopsyche lygdamus columbia*** (Skinner, 1917)  
Entomol. News 28(5): 213-214.  
**Original Combination:** *Lycaena lygdamus columbia*  
**Type Locality:** "Port Columbia, Washington" [Brewster, Okanogan County, Washington]  
**Types:** Holotype (#7049) in ANSP; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 2 ♂ D.

#### Genus *Cyclargus* Nabokov, 1945

Psyche 52(3/4): 14-16. Type-species: *Lycaena ammon* Lucas, 1856, *in*: Sagra, Hist. Cuba 7(2): 612, pl. [Ins.] 16, figs. 7, 7a, 7b, by original designation. K. Johnson and Bálint (1995), Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point) (54): 1-15, placed this genus in the *Polyommatus* section.

- \*541. ***Cyclargus thomasi*** (Clench, 1941)  
Mems. Soc. Cub. Hist. Nat. "Felipe Poey" 15(4): 407-408.  
**Original Combination:** *Hemiargus catalina thomasi*  
**Type Locality:** "Arthur's Town, Cat Island, Bahamas"  
**Types:** Holotype (#25736) in MCZ.
- a. ***Cyclargus thomasi bethunebakeri*** (W. Comstock & Huntington, 1943)  
Ann. N. Y. Acad. Sci. 45(2): 97-98, pl. 1, fig. 25 ♂ V.  
**Original Combination:** *Hemiargus ammon bethune-bakeri*  
**Type Locality:** "southern Florida...Miami" [Miami-Dade County]  
**Types:** Holotype in AMNH.
542. ***Cyclargus ammon*** (Lucas, 1857)  
*In*: Sagra, Hist. Cuba: 7(2): 612, pl. [Ins.] 16, figs. 7 ♂ & ♀ D, 7b ♀ V.  
**Original Combination:** *Lycaena Ammon*  
**Type Locality:** "environs de la Havane; elle habite aussi le Yucatan" [Cuba and Mexico]  
**Types:** Type(s) probably in MNHP.



This taxon was recorded from Florida by Beck (1985), *News Lepid. Soc.* 1985(2): 29, and has since become established in the lower Keys. It had been recorded previously from Florida, but always as a misidentification of *C. t. bethunebakeri*; see Calhoun *et al.* (2002), *Holarct. Lepid.* 7(1): 13-20.

#### Genus *Echinargus* Nabokov, 1945

*Psyche* 52(1/2): 27-28. Type-species: *Lycaena isola* Reakirt, [1867], *Proc. Acad. Nat. Sci. Philad.* 18(3): 332, no. 28, by original designation. K. Johnson and Bálint (1995), *Reps. Mus. Nat. Hist. Univ. Wisc. (Stevens Point)* (54): 1-15, placed this genus in the *Polyommatus* section.

#### 543. *Echinargus isola* (Reakirt, [1867])

*Proc. Acad. Nat. Sci. Philad.* 18(3): 332, no. 28.

**Original Combination:** *Lycaena isola*

**Type Locality:** "Mexico (near Vera Cruz)" [Veracruz]

**Types:** Location of type(s) not known, possibly lost. W. Comstock and Huntington (1960), *J. N. Y. Entomol. Soc.* 68(4): 239, stated that one ♀ is in the Strecker collection (FMNH).

= *nyagora* (Boisduval, 1870)

*Consid. Lépid. Guat.*: 17.

**Original Combination:** *Lycaena Nyagora*

**Type Locality:** "Mexique...Honduras"; lectotype from "Mex." [Mexico]

**Types:** Lectotype (#265591) in BMNH, designated by Bálint (1999), *Neue Entomol. Nachr.* 46: 8.

= *alce* (W. H. Edwards, 1871)

*Trans. Am. Entomol. Soc.* 3(3/4): 266, 272-273, no. 11.

**Original Combination:** *Lycaena Alce*

**Type Locality:** "Colorado"; defined as "Turkey Creek, Jefferson Co. and Georgetown, Clear Creek Co." by F. Brown (1934), *J. N. Y. Entomol. Soc.* 42(2): 162; subsequently defined as "vicinity of Turkey Creek Junction on the old stage road between Denver and the mining fields of northern South Park" by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(3): 363; neotype from "Larkspur, Douglas Co., Colorado."

**Types:** Neotype in CMNH, designated by F. Brown (1970), *Trans. Am. Entomol. Soc.* 96(3): 365, fig. 5 ♀ D&V.

Lamas (2004g), *Atl. Neotrop. Lepid. Chcklst. Part 4A*: 139, treated this taxon as a synonym of *E. isola*.

#### Genus *Plebejus* Kluk, 1780

*Zwierz. Hist. Nat. pocz. gospod.* 4: 89-92, no. 148. Type-species: *Papilio argus* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 483, no. 152, by designation of Hemming (1933), *Entomol.* 66(10)[845]: 224. I.C.Z.N. *Opinion* 278 placed *Plebejus* on the *Official List of Generic Names in Zoology* as name no. 705. This name has been spelled various ways; the spelling given in the *Official List* is the proper spelling by rule (Code Article 79.4.1). Bálint *et al.* (2001), *Folia Entomol. Hung.* 62: 177-184, discussed this issue.

#### Subgenus *Lycaeides* Hübner, [1819]

*Verz. bekannt. Schmett.* (5): 69. Type-species: *Papilio argyrognomon* Bergsträsser, [1779], *Nom. Ins.* 2: 76, pl. 46, figs. 1, 2, by designation of I.C.Z.N. *Opinion* 269. This species is to be interpreted by reference to the male genitalia figured by Chapman (1917), *in*: Oberthür, *Étud. Lépid. Comp.* 14: pl. 5, fig. 23 ♂ genitalia. I.C.Z.N. *Opinion* 270 placed *Lycaeides* on the *Official List of Generic Names in Zoology* as name no. 688. Bálint and K. Johnson (1997), *Neue Entomol. Nachr.* 40: 9, considered this a synonym or subgenus of *Plebejus*.

#### \*544. *Plebejus idas* (Linnaeus, 1761)

*Fauna Svecica* (ed. 2): 284, no. 1075; cited Linnaeus (1746), *Fauna Svecica*: 247, nos. 804-805, and Ray (1710), *Hist. Ins. Ins.*: 131, no. 12.

**Original Combination:** *P[apilio]. P[lebejus ruricola]. Idas*

**Type Locality:** "Ericetis"; "Svecica" determined by I.C.Z.N. *Opinion* 269.

**Types:** Types apparently lost.

I.C.Z.N. *Opinion* 269 gave priority to this name over *Papilio idas* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 488 no. 192, determined this species by reference to the male genitalia figured by Chapman (1917), *in*: Oberthür, *Étud. Lépid. Comp.* 14: pl. 3, fig. 7 ♂ genitalia, and placed this name on the *Official List of Specific Names in Zoology* as name no. 85.

= *acreon* (Fabricius, 1787)

*Mantissa Ins.* 2: 76, no. 699.

**Original Combination:** *P[apilio]. P[lebejus]. R[uralis] Acreon*

**Type Locality:** "Russia meridionali Dom. Boeber"

**Types:** Syntypes in HMUG.

= *amphion* (Fabricius, 1793)

*Entomol. Syst.* 3(1): 301, no. 139.

**Original Combination:** *H[esperia]. R[uralis]. Amphion*

**Type Locality:** "Germania Dom. Schmidt" [Germany]

**Types:** Type(s) probably lost.

#### a. *Plebejus idas empetri* T. Freeman, 1938

*Can. Entomol.* 70(3): 62-63, figs. 1 ♂ V (holotype), 2 ♀ V, 5 ♂ genitalia.

**Original Combination:** *Plebejus scudderii empetri*

**Type Locality:** "Baddeck, N. S." [Nova Scotia]



**Types:** Holotype (#4347) in CNC.

b. *Plebejus idas aster* (W. H. Edwards, 1882)

Can. Entomol. 14(10): 194-195.

**Original Combination:** *Lycaena Aster*

**Type Locality:** "Southern Newfoundland"; defined as "Avalon Peninsula" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 370-371. [Newfoundland and Labrador]

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 371, fig. 8 ♂ D&V; paralectotypes figured by W. Holland (1898), Butt. Book: pl. 30, figs. 40 ♂ D, 46 ♀ D, 47 ♂ V.

c. *Plebejus idas scudderii* (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 164, no 9.

**Original Combination:** *Lycaena Scudderii*

**Type Locality:** "Lake Winnipeg" [Manitoba]; corrected to "mouth of Saskatchewan River, Manitoba" by Scudder (1886), Winnipeg Country: 56; neotype from "Saskatchewan."

**Types:** Neotype in MCZ, designated by Nabokov (1945), Psyche 50(3/4): 93; figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 369, fig. 7 ♂ D&V.

= *subarcticus* F. Chermock, 1945

Can. Entomol. 76(11): 213.

**Original Combination:** *Plebeius scudderii subarcticus*

**Type Locality:** "Fairchild Point, Great Slave Lake, N. W. T., Canada" [Northwest Territories]

**Types:** Location of type(s) not known, possibly MGCL.

d. *Plebejus idas nabokovi* (Masters, 1972)

J. Lepid. Soc. 26(3): 151-153, fig. 1 ♂ D, 2 ♀ D, 3 ♀ V.

**Original Combination:** *Lycaeides argyrognomon nabokovi*

**Type Locality:** "Along Forest Road 122 in section 24 of Township 56 N, Range 11 W., Lake County, Minnesota"

**Types:** Holotype in CMNH.

e. *Plebejus idas alaskensis* F. Chermock, 1945

Can. Entomol. 76(11): 213.

**Original Combination:** *Plebeius scudderii alaskensis*

**Type Locality:** "Ft. Yukon, Alaska"

**Types:** Holotype in MGCL.

f. *Plebejus idas ferniensis* F. Chermock, 1945

Can. Entomol. 76(11): 215.

**Original Combination:** *Plebeius ferniensis*

**Type Locality:** "Fernie, B. C." [British Columbia]

**Types:** Holotype in MGCL; figured by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): pl. 5, fig. 47 ♂ V.

g. *Plebejus idas atrapraetextus* W. D. Field, 1939

J. Kansas Entomol. Soc. 12(4): 135-136.

**Original Combination:** *Plebeius scudderii atrapraetextus*

**Type Locality:** "Priest River, Idaho" [Bonner County]

**Types:** Holotype in USNM.

= *sweadneri* F. Chermock, 1945

Can. Entomol. 76(11): 214.

**Original Combination:** *Plebeius scudderii sweadneri*

**Type Locality:** "Uranus Peak, Shoshone Co., Idaho, altitude 5200 feet"

**Types:** Holotype in MGCL.

h. *Plebejus idas longinus* (Nabokov, 1949)

Bull. Harvard Mus. Comp. Zool. 101(4): 516-520, pl. 1, fig. 1.31, 32, 33, 34, 35, 36 ♂ uncus and falx, pl. 5, fig. 64 ♂ V, pl. 8, fig. 106 ♀ D.

**Original Combination:** *Lycaeides argyrognomon longinus*

**Type Locality:** "Jackson's [sic!] Hole, N. W. Wyoming" [Jackson Hole, Teton County]

**Types:** Holotype (#27845) in MCZ.

i. *Plebejus idas sublivens* (Nabokov, 1949)

Bull. Harvard Mus. Comp. Zool. 101(4): 513-516, pl. 1, fig. 27 left ♂ uncus and falx, pl. 5, fig. 65 ♂ V (holotype).

**Original Combination:** *Lycaeides argyrognomon sublivens*

**Type Locality:** "Telluride, San Miguel Mts., S. W. Colorado, alt. 10,000-12,000 ft." [San Miguel County]

**Types:** Holotype (#27844) in MCZ.

545. *Plebejus anna* (W. H. Edwards, 1861)

a. *Plebejus anna anna* (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 163, no. 8.

**Original Combination:** *Lycaena Anna*

**Type Locality:** "California"; defined as "Truckee, Nevada Co., California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 366-367; neotype from "Sierra Nevada."

**Types:** Neotype in CMNH, designated by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): 486, as "type"; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 21 ♂ D, and F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 366, fig. 6 ♂ D&V.

= *cajona* (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6[1]: 147-148, note.

**Original Combination:** *Lycaena Cajona*

**Type Locality:** "California"

**Types:** Syntype (#7789) in ANSP, other syntypes in FMNH. Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): 487, stated that a ♂ "cotype" was in the MCZ.

= *argyrotroxus* (Behr, 1867)

Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 281, no. 13.

**Original Combination:** *L[ycaena]. Argyrotroxus*

**Type Locality:** "California" implied from the title of the paper, "the Sierra Nevada" from the description; neotype from "slope 0.6 air miles S. of S. end of Lake Mary, 7200-7500', S. of Donner Pass, SE 1/4 of S. 20 & SW 1/4 of S. 21, T. 17N, R15E, Nevada County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 103, figs. 64 ♂ D, 65 ♂ V.

= *philemon* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 47-48, no. 26; figured by Oberthür (1913), Etud. Lépid. comp. 9(1): pl. 238, fig. 1965 ♂ D&V.

**Original Combination:** *Lycaena Philemon*

**Type Locality:** "le centre de la Californie"; defined as "Donner Pass, Nevada County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28, figs. 198 ♂ D, 199 ♂ V.

b. *Plebejus anna ricei* Cross, 1937

Pan-Pac. Entomol. 13(1/2): 88.

**Original Combination:** *Plebeius scudderii ricei*

**Type Locality:** "vicinity of Big Cultus Lake, Oregon" [Deschutes County]

**Types:** Holotype possibly in DMNH.

= *frechini* F. Chernock, 1945 (emended)

Can. Entomol. 76(11): 214.

**Original Combination:** *Plebeius scudderii frechini*

**Type Locality:** "Paradise Valley, Mt. Rainier, Washington" [Pierce County]

**Types:** Holotype in MGCL.

This name is a patronym of D. P. Frechin as indicated in the text; thus the emendation (Code Articles 19.2, 32.2.2, 33.2).

c. *Plebejus anna lotis* (Lintner, 1878)

Entomol. Contr. 4: 57-58.

**Original Combination:** *Lycaena Lotis*

**Type Locality:** "Mendocino, California" [Mendocino County]

**Types:** Holotype (#5668) in NYSM; figured by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): pl. 4, fig. 43 ♀ V, pl. 8, fig. 107 ♀ D.

d. *Plebejus anna azureus* (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butts. (14): 175-176, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.

**Original Combination:** *Lycaeides idas azureus*

**Type Locality:** "California: Trinity County; White Rock, 10 miles south of Wildwood"

**Types:** Holotype in LACM.

e. *Plebejus anna vancouverensis* (C. Guppy & J. Shepard, 2001)

Butts. B. C.: 236-237, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Lycaeides anna vancouverensis*

**Type Locality:** "BC, Strathcona Park, Cream Lake, 1,400m" [Vancouver Island, British Columbia]

**Types:** Holotype in BCPM.

f. *Plebejus anna benwarner* Scott, 2006

Papilio (n.s.) 12: 56, pl. 4, 3rd row left ♂ V (holotype).

**Original Combination:** *Plebejus atrapraetextus benwarner*

**Type Locality:** "Cedar Pass, Modoc Co., Calif." [California]

**Types:** Holotype in BMNH.

A. Warren (2005), Butts. Ore.: 188, suggested that this taxon is conspecific with *P. anna*.

546. *Plebejus melissa* (W. H. Edwards, 1873)

a. *Plebejus melissa samuelis* (Nabokov, 1944)

Psyche 50(3/4): 97-99.

**Original Combination:** *Lycaeides melissa samuelis*

**Type Locality:** Not stated; "Albany, N. Y...Center, New York" implied from the type series. The holotype is labeled "Orig. Pl. 6, Butt. N. Engl. Cab. S. H. Scudder, 306/ Mus. Comp. Zool. Slide No. 338," and the genitalia from this slide were figured by Nabokov (1945), Psyche 51(3/4): 109, fig. 1, labeled "Albany, New York." Scudder visited Center to sample his "namesake" only once, and the holotype is a specimen reared from this visit (R. Dirig pers. comm. 2006). Thus, Klots' (1951), Field Guide Butts. N. Am.: 166, determination of "Center (formerly Karner), New York" is accurate. [Albany County]

**Types:** Holotype (#26704) in MCZ; figured by Scudder (1889), Butts. E. U. S. & Can. 3(4): pl. 34, fig. 29 ♂ genitalia; (7): pl. 6, fig. 6 ♂ D&V.

b. *Plebejus melissa melissa* (W. H. Edwards, 1873)

Trans. Am. Entomol. Soc. 4(4): 346-348; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Lycaena Melissa*

**Type Locality:** "Colorado...Nevada...Arizona"; suggested to be "Fairplay" [Park County, Colorado] by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 162; defined as "vicinity of Twin Lakes, Lake Co., Colorado...probably...on La Plata Peak" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 372. Redefined, probably in error, to "Tinytown" [Turkey Creek Junction, Jefferson County, Colorado] by Scott (2006), Papilio (n.s.) 12: 60. F. Brown's (1934) definition of "Fairplay" is most likely correct (A. Warren pers. comm. 2006).

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 66, fig. 17 ♀ V, as "type."

c. **Plebejus melissa pseudosamuelis** (Nabokov, 1949)

Bull. Harvard Mus. Comp. Zool. 101(4): 529-530, pl. 1, fig. 28 ♂ uncus and falx, pl. 6, figs. 75 ♂ V (holotype), 76 ♀ V, pl. 9, fig. 120 ♀ D.

**Original Combination:** *Lycaeides melissa pseudosamuelis*

**Type Locality:** "vic. Red Mt. Inn, Highway 82, between Mt. Elbert and La Plata, Pitkin Co., Colorado"

**Types:** Holotype (#27846) in MCZ.

This taxon is possibly conspecific with *L. idas*.

d. **Plebejus melissa annetta** (W. H. Edwards, 1882)

Papilio 2(3): 45, 48-49, no. 5.

**Original Combination:** *Lycaena Annetta*

**Type Locality:** "near Salt Lake, Utah"; Mead's specimens were suggested to have come from the "Wasatch Mts." by Nabokov (1949), Bull. Harvard Mus. Comp. Zool. 101(4): 532-533.

**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 376-377, fig. 10 ♂ D&V; paralectotype figured by W. Holland (1898), Butt. Book: pl. 332, fig. 14 ♀ D.

This taxon is possibly conspecific with *L. idas*.

= ♀ "caeca" (Courvoisier, 1912)

Dtsche. Entomol. Z. "Iris" 26(1): 63.

**Original Combination:** [*Lycaena annetta*] F[orma]. *caeca*

**Type Locality:** "Nd. Amer" [North America]

**Types:** "Type(s)," if extant or recognizable, probably in NHMB.

e. **Plebeius melissa alateres** (Austin, 1998)

Syst. W. N. Am. Butts. (45): 558-559, figs. 109 ♂ D, 110 ♂ V (holotype); 111 ♀ D, 112 ♀ V.

**Original Combination:** *Lycaeides melissa alateres*

**Type Locality:** "Nevada: Clark County; Moapa Valley, Logandale, 415 m, T15S R67E S27 on USGS Overton, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

f. **Plebejus melissa inyoensis** (Nabokov, 1949)

Bull. Harvard Mus. Comp. Zool. 101(4): 530-532.

**Original Combination:** *Lycaeides melissa inyoensis*

Nabokov adopted *Plebeius melissa* tr. f. *inyoensis* Gunder, 1927, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♀ "inyoensis" Gunder, 1927

Can. Entomol. 59(12): 281-282, no. 1, pl. A, fig. 1 ♂ V ("Holotype").

**Original Combination:** *Plebeius melissa* tr. f. *inyoensis*

**Type Locality:** "Olancho, Inyo Co., Calif." [California]

**Types:** Holotype in AMNH.

g. **Plebejus melissa paradoxa** F. Chermock, 1945

Can. Entomol. 76(11): 214.

**Original Combination:** *Plebeius melissa paradoxa*

**Type Locality:** "Tehachapi Mts., California" [Kern County]

**Types:** Location of holotype not known.

547. **Plebejus fridayi** F. Chermock, 1945

Can. Entomol. 76(11): 215.

**Original Combination:** *Plebeius melissa fridayi*

**Type Locality:** "Mammouth [sic], California" [Mammoth, Mono County]

**Types:** Location of holotype not known.

K. Davenport (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 32, treated this as a species-level taxon.

Subgenus **Plebejus** Kluk, 1780

= ♀ *Rusticus* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by monotypy. I.C.Z.N. *Opinion* 97 suppressed the Tentamen and the names within it. I.C.Z.N. *Opinion* 278 placed *Rusticus* Hübner, [1806], on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 213.

= ♀ *Plebeius* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 653. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by designation of Crotch (1872), Cist. Entomol. 1(4): 60. A junior objective synonym and homonym of *Plebejus* Kluk, 1780.

= ♀ *Lycoena* Nicholl, 1901

Trans. Entomol. Soc. Lond. (4)1901[49](1): 92-95, nos. 73-87. Type-species: *Papilio argus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 483, no. 152, by designation of Cowan (1970), Annot. Rhop. 1970: 11. A junior objective synonym of *Plebejus* Kluk, 1780.



548. **Plebejus saepiolus** (Boisduval, 1852)a. **Plebejus saepiolus amica** (W. H. Edwards, 1863)

Proc. Entomol. Soc. Philad. 2[2]: 78, 80-81, no. 4.

**Original Combination:** *Lycæna Amica*

**Type Locality:** "Mackenzie's River"; neotype from "Fort Smith, N. W. T." [Northwest Territories]

**Types:** Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 379, fig. 11 ♂ D&V. This same specimen was redesignated as neotype by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv. 3(6): 4, figs. 5 ♂ D, 6 ♂ V, because they erroneously thought Brown failed to comply with Code Article 75.3.1.

= *kodiak* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 20, no. 14.

**Original Combination:** *Lycæna Kodiak*

**Type Locality:** "Kodiak"; defined as "vicinity of Sitka" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 381, probably in error.

**Types:** Lectotype in FMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 382, fig. 12 ♂ D&V.

= *caerulescens* Ferris, 1970

J. Res. Lepid. 8(3): 91, 93, fig. bottom ♀ D ("Holotype").

**Original Combination:** *Plebeius (Plebejus) saepiolus saepiolus* ♀ form *caerulescens*

**Type Locality:** "Crooks Tower Road, Black Hills N. F., 6000' approx., Lawrence Co., South Dakota"

**Types:** "Holotype" in MGCL.

b. **Plebejus saepiolus insulanus** Blackmore, 1920

Proc. Entomol. Soc. B. C. 14: 8, pl. 1, fig. 7 ♂ V (lectotype).

**Original Combination:** [*Plebeius saepiolus* race] *insulanus*

**Type Locality:** "Vancouver Island"; defined as "Victoria, B. C." by Blackmore (1923), Can. Entomol. 55(4): 99. [British Columbia]

**Types:** Lectotype in CNC, designated by Blackmore (1923), *ibid.* (as "holotype"); figured by Kondla and C. Guppy (2002), Tax. Rep. Int. Lepid. Surv. 3(6): figs. 3 ♂ D, 4 ♂ V.

c. **Plebejus saepiolus littoralis** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (14): 178, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.

**Original Combination:** *Plebejus saepiolus littoralis*

**Type Locality:** "California: Del Norte County; sand dunes at west end of Kellogg Road, north end of Lake Earl, 2 road miles west of Fort Dick, elevation 15"

**Types:** Holotype in LACM.

d. **Plebejus saepiolus saepiolus** (Boisduval, 1852)

Annl. Soc. Entomol. Fr. (2)10(2): 296, no. 32; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1941 ♂ D&V, 942 ♀ D&V.

**Original Combination:** *Lycæna saepiolus*

**Type Locality:** "les montagnes"; "California" implied from the title of the paper; lectotype from "Bear Valley, near Olema, Marin County, California."

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. 14, figs. 60 ♂ D, 61 ♂ V.

e. **Plebejus saepiolus rufescens** (Boisduval, 1869)

Annl. Soc. Entomol. Belg. 12: 48; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2067 ♂ D&V, 2068 ♀ D&V.

**Original Combination:** *Lycæna rufescens*

**Type Locality:** "les plaines de l'intérieur"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28, figs. 201 ♂ D, 202 ♂ V.

f. **Plebejus saepiolus aehaja** (Behr, 1867)

Proc. Calif. Acad. Sci. 3(4) [sig.] 18: 280-281, no. 11.

**Original Combination:** *L[ycæna] Aehaja*

**Type Locality:** "California" implied from the title of the paper, "associated with *L. Daedalus*...in the Alpine regions around the head waters of the Tuolumne River" from the description; neotype from "Tioga Pass, Mono County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 103, figs. 67 ♀ D, 68 ♀ V.

g. **Plebejus saepiolus albomontanus** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 510-511, figs. 43 ♂ D, 44 ♂ V (holotype); 45 ♀ D, 46 ♀ V.

**Original Combination:** *Plebejus saepiolus albomontanus*

**Type Locality:** "California: Mono County; White Mountains, slope 0.9 air miles east of Barcroft laboratory, south of McAfee meadows, 3627-3658 m, T4S R34E (unsectioned) on USGS Mt. Barcroft, Calif.-Nev. 15' quadrangle"

**Types:** Holotype in LACM.

h. **Plebejus saepiolus aureolus** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (14): 176-177, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Plebejus saepiolus aureolus*

**Type Locality:** "California: Los Angeles County; wet meadow 0.1 air mile WSW of Big Pines Ranger Station, Big Pines, San Gabriel Mountains"

**Types:** Holotype in LACM.

i. **Plebejus saepiolus hilda** (J. Grinnell & F. Grinnell, 1907)

J. N. Y. Entomol. Soc. 15(1): 46-47.

**Original Combination:** *Cupido hilda*

**Type Locality:** "upper cienega at the head of the South Fork of the Santa Ana, at an elevation of about 8,500 feet" [San Bernardino Mountains, San Bernardino County, California]

**Types:** Holotype in AMNH.

= *♂*"garthi" Gunder, 1928

Can. Entomol. 60(7): 168, pl. B, fig. 21 ♀ V ("Holotype").

**Original Combination:** *Plebeius saepiolus* race *hilda* tr. f. *garthi*

**Type Locality:** "Tahquitz Valley, Riv. Co., Calif." [Riverside County, California]

**Types:** "Holotype" in AMNH.

= *♂*"boharti" Gunder, 1932

Pan-Pac. Entomol. 8(3): 127.

**Original Combination:** *Plebeius saepiolus* tr. f. *boharti*

**Type Locality:** "Yosemite Natl. Park, California"

**Types:** Holotype in AMNH.

j. *Plebeius saepiolus maculosus* Austin, 1998

Syst. W. N. Am. Butts. (71): 820, figs. 1 third row left ♂ D, 2 third row left ♂ V (holotype), 1 third row, 2nd from left ♂ D, 2 third row, 2nd from left ♂ V, 1 third row, two ♀♀ on right D, 2 third row, two ♀♀ on right V.

**Original Combination:** *Plebeius saepiolus maculosus*

**Type Locality:** "Nevada: White Pine County; Snake Range, Snake Creek (now in Great Basin National Park), 2300 m, T12N R69E S10 on USGS Garrison, Nev.-Utah 15' quadrangle"

**Types:** Holotype in MGCL.

k. *Plebeius saepiolus gertschi* dos Passos, 1938

Can. Entomol. 70(3): 46, pl. 2, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Plebeius saepiolus gertschi*

**Type Locality:** "Cedar Breaks, near Cedar City, Utah" [Iron County]

**Types:** Holotype in AMNH.

l. *Plebeius saepiolus whitmeri* F. Brown, 1951

Ann. Entomol. Soc. Am. 44(2): 286-287.

**Original Combination:** *Plebeius saepiolus whitmeri*

**Type Locality:** "Rampart Range Road, near Woodland Park, Teller Co., Colorado. 9500 feet"

**Types:** Holotype in AMNH.

= *♂*"leussleri" Gunder, 1927

Can. Entomol. 59(12): 282, no. 3, pl. A, fig. 3 ♀ V ("Holotype").

**Original Combination:** *Plebeius saepiolus* tr. f. *leussleri*

**Type Locality:** "Cassell's, Park Co., Neb., Alt. 8500"; corrected to "Cassells, Park Co., Colorado" by dos Passos (1938), Can. Entomol. 70(3): 46.

**Types:** "Holotype" in OSU.

Subgenus *Plebulina* Nabokov, 1944

Psyche 51(3/4): 104. Type-species: *Lycaena emigdionis* F. Grinnell, 1905, Entomol. News 16(4): 115-116, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 9, considered this taxon a synonym of *Plebeius*.

549. *Plebeius emigdionis* (F. Grinnell, 1905)

Entomol. News 16(4): 115-116.

**Original Combination:** *Lycaena emigdionis*

**Type Locality:** "San Emigdio Canon, Kern Co., Calif." [California]

**Types:** Holotype in AMNH.

= *melimona* (W. G. Wright, 1905)

Butts. W. Coast: 63, no. 382; 226, no. 382, pl. 29, figs. 382 ♀ D, 382b ♀ D (lectotype), 382c ♀ V, 382cc ♂ V.

**Original Combination:** [*Lycaena*] *Melimona*; *Lycaena Melimona* n. v.

**Type Locality:** "Southern California" "San Bernardino Mts." [Riverside-San Bernardino counties]

**Types:** Lectotype in CAS (#4318), designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 36.

Subgenus *Icaricia* Nabokov, 1945

Psyche 51(3/4): 104. Type-species: *Lycaena icarioides* Boisduval, 1852, Anns. Soc. Entomol. Fr. (2)10(2): 297, no. 33, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 7, considered *Icaricia* to be a synonym of *Aricia* [Reichenbach], 1817, Jena. Allgem. Lit.-Zeit. 14(1): 280.

550. *Plebeius icarioides* (Boisduval, 1852)

a. *Plebeius icarioides evius* (Boisduval, 1869)

Anns. Soc. Entomol. Belg. 12: 49, no. 30; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2072 ♂ D&V, 2073 ♀ D&V.

**Original Combination:** *Lycaena Evius*

**Type Locality:** "Du sud de la Californie"; defined as "La Crescenta, Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29.



- Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29, figs. 213 ♂ D, 214 ♂ V.
- b. ***Plebejus icarioides santana*** (J. Emmel, T. Emmel & Mattoon, 1998)  
Syst. W. N. Am. Butts. (14): 186-187, figs. 53 ♂ D, 54 ♂ V, 55 ♀ V, 56 ♀ V.  
**Original Combination:** *Icaricia icarioides santana*  
**Type Locality:** "California: Orange County; Yaeger Mesa, 2,900-3,100' elevation, above Trabuco Canyon; northeast one-fourth of S.3, T6S., R6W"  
**Types:** Holotype in LACM.
- c. ***Plebejus icarioides moroensis*** Sternitzky, 1930  
Pan-Pac. Entomol. 7(2): 93-94.  
**Original Combination:** *Plebeius icarioides moroensis*  
**Type Locality:** "Moro Beach, San Luis Obispo County, California"  
**Types:** Holotype (#2982) in CAS.
- d. ***Plebejus icarioides atascadero*** (J. Emmel, T. Emmel & Mattoon, 1998)  
Syst. W. N. Am. Butts. (14): 189, figs. 61 ♂ D, 62 ♂ V (holotype); 63 ♀ D, 64 ♀ V.  
**Original Combination:** *Icaricia icarioides atascadero*  
**Type Locality:** "California: San Luis Obispo County; Atascadero"  
**Types:** Holotype in LACM.
- e. ***Plebejus icarioides pardalis*** (Behr, 1867)  
Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 279-280, no. 1.  
**Original Combination:** *Lycaena Pardalis*  
**Type Locality:** "California" implied from the title of the paper, "in the Contra Costa Coast Range, in the vicinity of San Antonio" from the description; neotype from "Lake Chabot, Alameda County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 102, figs. 55 ♂ D, 56 ♂ V.  
= *erymus* (Boisduval, 1869)  
Annls. Soc. Entomol. Belg. 12: 48, no. 27; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2069 ♂ D&V, 2070 ♀ D&V.  
**Original Combination:** *Lycaena Erymus*  
**Type Locality:** "Des frontières de l'Oregon" in error; defined as "Lake Chabot, Alameda County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 28, figs. 207 ♂ D, 208 ♂ V.  
= *mintha* (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(2): 189, 194, no. 9.  
**Original Combination:** *Lycaena Mintha*  
**Type Locality:** "Nevada"; corrected to "Marin County, California" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 388.  
**Types:** Lectotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 389-390, fig. 14 ♂ D&V.  
= "windi" Gunder, 1933  
Can. Entomol. 65(8): 173.  
**Original Combination:** *Plebeius maricopa* tr. f. *windi*  
**Type Locality:** "Berkeley, Calif." [Alameda County, California]  
**Types:** "Holotype" in AMNH.
- f. ***Plebejus icarioides missionensis*** Hovanitz, 1937  
Pan-Pac. Entomol. 13(4): 187-188.  
**Original Combination:** *Plebeius icarioides missionensis*  
**Type Locality:** "Twin Peaks, San Francisco, Calif. elevation 700 ft." [San Francisco County, California]  
**Types:** Holotype (#4526) in CAS.
- g. ***Plebejus icarioides pheres*** (Boisduval, 1852) †  
Annls. Soc. Entomol. Fr. (2)10(2): 297, no. 34; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, figs. 1944 ♂ D&V, 1945 ♀ D&V.  
**Original Combination:** *Lycaena pheres*  
**Type Locality:** "Environs de San Francisco"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15, figs. 69 ♂ D, 70 ♂ V.
- h. ***Plebejus icarioides parapheres*** (J. Emmel, T. Emmel & Mattoon, 1998)  
Syst. W. N. Am. Butts. (14): 187-188, figs. 57 ♂ D, 58 ♂ V (holotype); 59 ♀ D, 60 ♀ V.  
**Original Combination:** *Icaricia icarioides parapheres*  
**Type Locality:** "California: Marin County; Pt. Reyes Dunes, 25' +/- elevation"  
**Types:** Holotype in LACM.
- i. ***Plebejus icarioides fenderi*** Macy, 1931  
Entomol. News 42(1): 1-2, pl. 1 ♀ D, ♀ V, ♂ D.  
**Original Combination:** *Plebeius maricopa fenderi*  
**Type Locality:** "six miles S.E. of McMinneville [sic], Oregon" [McMinneville, Yamhill County]  
**Types:** Holotype supposedly in Macy collection but not found in OSAC.
- j. ***Plebejus icarioides blackmorei*** W. Barnes & McDunnough, 1919  
Can. Entomol. 51(4): 92-93.  
**Original Combination:** *Plebeius icarioides blackmorei*



- Type Locality:** "Goldstream, Vanc. Is., B. C." [Vancouver Island, British Columbia]  
**Types:** Holotype in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 65, figs. 25 ♂ D, 26 ♀ D, 27 ♂ V.
- k. ***Plebejus icarioides montis*** Blackmore, 1923  
 Can. Entomol. 55(4): 99-100.  
**Original Combination:** *Plebeius icarioides montis*  
**Type Locality:** "Mt. McLean, near Lillooet, B. C." [British Columbia]  
**Types:** Holotype in CNC.
- l. ***Plebejus icarioides helios*** (W. H. Edwards, 1871)  
 Trans. Am. Entomol. Soc. 3(3/4): 205, 208-209, no. 6.  
**Original Combination:** *Lycaena Helios*  
**Type Locality:** "California"; neotype from "Fawn Lodge, Cal., Trinity Co."  
**Types:** Neotype in CMNH, designated by Downey (1970), in: F. Brown, Trans. Am. Entomol. Soc. 96(3): 392-393, fig. 15 ♂ D&V.  
 = *sp. spinimaculata* Gunder, 1926  
 Entomol. News 37(1): 8, no. 12, pl. 1, fig. 12 ♂ V ("Holotype").  
**Original Combination:** *Plebeius icarioides* ab. ♂ *spinimaculata*  
**Type Locality:** "Delta, Trinity County, California"  
**Types:** "Holotype" in AMNH.
- m. ***Plebejus icarioides icarioides*** (Boisduval, 1852)  
 Annls. Soc. Entomol. Fr. (2)10(2): 297, no. 33; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 237, fig. 1943 ♂ D&V.  
**Original Combination:** *Lycaena icarioides*  
**Type Locality:** "les montagnes"; redefined as "les montagnes peu élevées" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 17, no. 34; defined as "2000-4000 feet El Dorado and Nevada counties, California" by Hovanitz (1937), Pan-Pac. Entomol. 13(4): 185; subsequently defined as "Hwy. 70 at Soda Creek, East Branch North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 14.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 15, figs. 66 ♂ D, 67 ♂ V.  
 = *maricopa* (Reakirt, 1866)  
 Proc. Acad. Nat. Sci. Philad. [18](3): 245-246, no. 19.  
**Original Combination:** *Lycaena maricopa*  
**Type Locality:** "California"  
**Types:** Probable syntypes in FMNH.  
 = *daedalus* (Behr, 1867)  
 Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 280, no. 9.  
**Original Combination:** *L[ycæna]. Daedalus*  
**Type Locality:** "California" implied from the title of the paper, "the Alpine regions around the head waters of the Tuolumne River" from the description; neotype from "Vogelsang Pass, Yosemite National Park, south of Tuolumne Meadows, Tuolumne-Mariposa County line, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 104, figs. 70 ♀ D, 71 ♀ V.  
 = *phileros* (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 50, no. 32; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2076 ♂ D&V, 2077 ♀ D&V.  
**Original Combination:** *Lycae Phileros*  
**Type Locality:** "Des montagnes de l'Est"; defined as "slope south above Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30, figs. 219 ♂ D, 220 ♂ V.
- n. ***Plebejus icarioides eosierra*** (J. Emmel, T. Emmel & Mattoon, 1998)  
 Syst. W. N. Am. Butts. (14): 183-184, figs. 45 ♂ D, 46 ♂ V (holotype); 47 ♀ D, 48 ♀ V.  
**Original Combination:** *Icaricia icarioides eosierra*  
**Type Locality:** "California: Inyo County; Falls Creek, 5200' elevation, 3 miles south and 3 miles west of Olancho, east slope Sierra Nevada"  
**Types:** Holotype in LACM.
- o. ***Plebejus icarioides albihalos*** (J. Emmel, T. Emmel & Mattoon, 1998)  
 Syst. W. N. Am. Butts. (14): 182-183, figs. 41 ♂ D, 42 ♂ V (holotype); 43 ♀ D, 44 ♀ V.  
**Original Combination:** *Icaricia icarioides albihalos*  
**Type Locality:** "California: Mono County; White Mountains; along White Mountain Road 0.7 road miles northwest of turnoff to Crooked Creek, east of Campito Mountain, at 10,560" elevation"  
**Types:** Holotype in LACM.
- p. ***Plebejus icarioides inyo*** (J. Emmel, T. Emmel & Mattoon, 1998)  
 Syst. W. N. Am. Butts. (14): 181-182, figs. 37 ♂ D, 38 ♂ V (holotype); 39 ♀ D, 40 ♀ V.  
**Original Combination:** *Icaricia icarioides inyo*  
**Type Locality:** "California: Inyo County; Inyo Mountains; Side Hill Spring, 9,100'-9,200' elevation, northwest one-fourth of S.22, T.11S., R.36E."  
**Types:** Holotype in LACM.
- q. ***Plebejus icarioides argusmontana*** (J. Emmel, T. Emmel & Mattoon, 1998)  
 Syst. W. N. Am. Butts. (14): 179, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.

**Original Combination:** *Icaricia icarioides argusmontana*

**Type Locality:** "California: Inyo County; Mountain Springs Canyon, 5500' elevation, Argus Mountains"

**Types:** Holotype in LACM.

r. **Plebejus icarioides panamintina** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butts. (14): 180-181, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.

**Original Combination:** *Icaricia icarioides panamintina*

**Type Locality:** "California: Inyo County; Panamint Range; Telescope Peak Trail, between Mahogany Flats and Arcane Meadows, 8400-9500' elevation; S2 and S11, T20S, R45E"

**Types:** Holotype in LACM.

s. **Plebejus icarioides austinorum** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butts. (14): 184-185, figs. 49 ♂ D, 50 ♂ V (holotype); 51 ♀ V, 52 ♀ V.

**Original Combination:** *Icaricia icarioides austinorum*

**Type Locality:** "Nevada: Clark County; Spring Range, Kyle Canyon Ski area"

**Types:** Holotype in MGCL.

t. **Plebejus icarioides fulla** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 194-195, no. 10.

**Original Combination:** *Lycaena Fulla*

**Type Locality:** "California"; neotype from "Sonora Pass, elev. 9700 ft., Mono Co., Calif." [California]

**Types:** Neotype in CMNH, designated by Downey (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 386-387, 394, fig. 13 ♂ D&V.

= *ardea* (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 209-210, no. 8.

**Original Combination:** *Lycaena Ardea*

**Type Locality:** "Nevada, vic. Virginia City" [Storey County]

**Types:** Holotype in AMNH, figured by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 394, fig. 16 ♂ D&V.

u. **Plebejus icarioides pimbina** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 224, no. 7.

**Original Combination:** *Lycaena Pimbina*

**Type Locality:** "Lake Winnipeg"; defined as "Great Slave Lake" by W. H. Edwards (1877), Trans. Am. Entomol. Soc. 6(1): 45; neotype from "Lost Horse Road Bitter Root Mtns., Ravalli Co., Mont." [Montana]

**Types:** Neotype in CMNH, designated by Downey (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 401-402, fig. 19 ♂ D&V.

v. **Plebejus icarioides lycea** (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 507, no. 9.

**Original Combination:** *Lycaena Lycea*

**Type Locality:** "Rocky Mountains"; neotype from "Gregory Canyon, Boulder, Colo." [Boulder County, Colorado]

**Types:** Neotype in CMNH, designated by Downey (1970), *in*: F. Brown, Trans. Am. Entomol. Soc. 96(3): 396-397, fig. 17 ♂ D&V.

= *rapahoe* (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6(1): 146-147.

**Original Combination:** *Lycaena Rapahoe*

**Type Locality:** "Rocky Mountains, Colorado Terr."

**Types:** Probable syntypes in FMNH; figured by Strecker (1874), Lepid. Rhop. Het. (10): pl. 10, fig. 14 ♂ D&V, 15 ♀ D.

w. **Plebejus icarioides buchholzi** dos Passos, 1938

Can. Entomol. 70(3): 47, pl. 2, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Plebejus icarioides buchholzi*

**Type Locality:** "White Mountains, Arizona (8500')"

**Types:** Holotype in AMNH.

551. **Plebejus shasta** (W. H. Edwards, 1862)

a. **Plebejus shasta shasta** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 224-225, no. 8.

**Original Combination:** *Lycaena Shasta*

**Type Locality:** "California"; neotype from "Sheppard Pass Trail West/head of Tyndall Ck. 11-12,200' /, Tulare Co., Calif."

**Types:** Neotype in CMNH, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 404, fig. 20 ♂ D&V.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 27, discussed the neotype designated by F. Brown (1970). They considered it invalid because Behr did not have access to the area from where the neotype was taken, and W. H. Edwards' description fits the syntypes of *nivium* and *zelmira* more closely than that of the neotype. Austin *et al.* (1998), Syst. W. N. Am. Butts. (7): 115-116, designated a "new" neotype. This is the lectotype of *zelmira* (see below). Until this issue is addressed formally, the original neotype is retained.

= *zelmira* (C. Felder & R. Felder, 1865)

Reise Novara (2): 282, no. 358, pl. 35, figs. 17 ♂ D, 18 ♂ V, 19 ♀ D.

**Original Combination:** *Lycaena Zelmira*

**Type Locality:** "California, Utah"; defined as "slope south above Donner Pass, 7,500' elevation, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 90.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 90, figs. 28 ♂ D, 29 ♂ V. This is the "neotype" of *shasta*, thereby making *zelmira* a junior objective synonym of *shasta* (see above).

= *nivium* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 47, no. 25; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1963 ♂



D&V, 1964 ♀ D&V.

**Original Combination:** *Lycaena nivium*

**Type Locality:** "l'Orégon"; defined as "slope south above Donner Pass, 7,500' elevation, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 27.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 27, figs. 195 ♂ D, 196 ♂ V.

= *comstocki* C. Fox, 1924

Entomol. News 35(4): 140-141.

**Original Combination:** *Plebejus shasta comstocki* new variety

**Type Locality:** "Glacier Point, Yosemite National Park, California" [Mariposa County]

**Types:** Holotype in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 54, figs. 27 ♂ D.

b. *Plebejus shasta calchas* (Behr, 1867)

Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 281-282, no. 14.

**Original Combination:** *L[ycæna]. Calchas*

**Type Locality:** "California" implied from the title of the paper, "Mono Lake" from the description; neotype from "Mono Lake, Mono County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 103, figs. 58 ♂ D, 59 ♂ V.

c. *Plebejus shasta pallidissima* (Austin, 1998)

Syst. W. N. Am. Butts. (45): 559, figs. 113 ♂ D, 114 ♂ V (holotype); 115 ♀ D, 116 ♀ V.

**Original Combination:** *Icaricia shasta pallidissima*

**Type Locality:** "Nevada: White Pine County; Snake Range, vicinity of Stella Lake, 3170 m, T13N R68E (unsectioned) on USGS Sacramento Pass, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

d. *Plebejus shasta minnehaha* (Scudder, 1874)

Proc. Boston Soc. Nat. Hist. 17(1): 88-89, no. 12.

**Original Combination:** *Agriades minnehaha*

**Type Locality:** "Heart River Crossing, Dakotah Terr., about fifty miles west of the Missouri River"; suggested to be "most probably in Grant Co., North Dakota where the present State Road 49 (between Glen Ullin and Elgin) crosses the Heart River...elevation...1800'" by Ferris (1970), Entomol. News 81(8): 204.

**Types:** Syntypes (#15977) in MCZ; one figured by Ferris (1976), Bull. Allyn Mus. (36): fig. 16 ♂ D&V.

= *browni* Ferris, 1970

Entomol. News 81(8): 204-207, figs. 1, middle row ♂ genitalia, 2, top row left ♂ D (holotype), right ♀ D, bottom row left ♂ V, right ♀ V.

**Original Combination:** *Plebejus shasta browni*

**Type Locality:** "Powder River Pass, 9700', Johnson Co., Wyoming"

**Types:** Holotype in LACM.

e. *Plebejus shasta charlestonensis* Austin, 1980

J. Lepid. Soc. 34(1): 20-22, fig. 1 top ♂ D&V (holotype), bottom ♀ D&V.

**Original Combination:** *Plebejus shasta charlestonensis*

**Type Locality:** "Lee's (= Lee) Canyon, (Spring Range), Clark Co.(unty), Nev.(ada), 8500'"; also stated as "NEVADA: Clark Co., Spring Range, Lee Canyon, 8250'-8800'. This is the open area between Lee Canyon Guard Station and the ski tow as shown on USGS Charleston Peak, Nevada, quadrangle, 15 minute series (R 56E, T 18S, S 10 and S 15) 250-8800', Clark Co., Nevada."

**Types:** Holotype in LACM.

f. *Plebejus shasta pitkinensis* Ferris, 1976

Bull. Allyn Mus. (36): 2-3, figs. 19 ♂ D&V (holotype), 20 ♀ D&V.

**Original Combination:** *Plebejus shasta pitkinensis*

**Type Locality:** "Snowmass Lake, 12,000', Pitkin Co., Colorado"

**Types:** Holotype in MGCL.

g. *Plebejus shasta platazul* Scott, 2006

Papilio (n.s.) 12: 50, pl. 4, 2nd row left ♂ D&V (holotype).

**Original Combination:** *Plebejus shasta platazul*

**Type Locality:** "Hermit Pass, ~12,000', Sangre de Cristo Mts., Custer Co. Colo." [Colorado]

**Types:** Holotype in BMNH.

552. *Plebejus acmon* (Westwood, [1851])

In: Gen. diurn. Lepid. 2: pl. 76, fig. 2 ♂ D [1851]; (53): 494, no. 139 (1852).

**Original Combination:** *Lyc[aena]. Acmon*

**Type Locality:** "California"; suggested to be "San Francisco, San Francisco County, California" by Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 3.

**Types:** Syntype (#235605) in BMNH; figured by Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 2, figs. 1 ♂ D, 2 ♂ V.

Opler (2003), Tax. Rep. Int. Lepid. Surv. 4(1): 1-6, determined that *P. acmon* is monotypic. Taxa formerly treated as subspecies of *P. acmon* are tentatively associated with *P. lupini* herein.

= *antaegon* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 295, no. 30; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 236, fig. 1936 ♂ D&V, 1937 ♀ D&V.

**Original Combination:** *Lycaena antaegon*

**Type Locality:** "Californie" implied from the title of the paper; defined as "environs de San-Francisco" by Boisduval (1868),



Annls. Soc. Entomol. Belg. 12: 16, no. 31; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 13, figs. 54 ♂ D, 55 ♂ V.  
= *cottlei* (F. Grinnell, 1916)

J. Entomol. & Zool. 8(2): 83, pl., upper left ♀ D, upper right ♂ D, center left ♀ V, center right ♂ V, bottom left ♀ V, bottom right ♂ V.

**Original Combination:** *Rusticus acmon cottlei*

**Type Locality:** "Baker's Beach, north of the Cliff House, within the city and county of San Francisco" [California]

**Types:** Holotype in AMNH.

= ♀ "labecula" F. Watson & W. Comstock, 1920

Bull. Am. Mus. Nat. Hist. 42(10): 457.

**Original Combination:** *Plebejus acmon* ab. *labecula*

**Type Locality:** "San Francisco district, California" [San Francisco County]

**Types:** "Holotype" in AMNH.

= ♀ "kelseyi" W. S. Wright, 1930

Trans. San Diego Soc. Nat. Hist. 6(3): 29-30, no. 111.

**Original Combination:** *Plebejus acmon* ab. *kelseyi*

**Type Locality:** "San Diego County, California" implied from the title of the paper. [San Diego County]

**Types:** "Holotype" in SDMC.

# 553. **Plebejus lupini** (Boisduval, 1869)

The arrangement of taxa under this species should be considered tentative; some of these may represent species-level taxa.

## a. **Plebejus lupini texanus** (Goodpasture, 1973)

Pan-Pac. Entomol. 49(2): 149-151, figs. 2 ♂ uncus, 5 ♂ uncus, 8 ♀ sterigma, map 1, 12 ♂ D (holotype), 15 ♀ D, 16 ♂ V, 19b ♀ sterigma.

**Original Combination:** *Icaricia acmon texanus*

**Type Locality:** "1 mi. S Hillside, Yavapai Co., Arizona"

**Types:** Holotype in LACM.

## b. **Plebejus lupini lutzi** dos Passos, 1938

Can. Entomol. 70(3): 48, pl. 2, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Plebejus acmon lutzi*

**Type Locality:** "Snowslide Canyon, eight miles from Montpelier, Idaho" [Bear Lake County]

**Types:** Holotype in AMNH.

= ♀ "pseudolupini" Ferris, 1970

J. Res. Lepid. 8(3): 91, figs. 1, top left ♂ D, top right ♂ V ("Holotype").

**Original Combination:** *Plebejus (Icaricia) acmon lutzi* form *pseudolupini*

**Type Locality:** "near Eagle Rock, 8200' approx., Sherman Range, Medicine Bow N. F., Albany Co., Wyoming"

**Types:** "Holotype" in Ferris collection, possibly in MGCL.

## c. **Plebejus lupini cotundra** Scott & M. Fisher, 2006

Papilio (n.s.) 12: 50-51, pl. 4, 2nd row left center ♂ D&V (holotype).

**Original Combination:** *Plebejus lupini* (*P. spangelatus*?) *cotundra*

**Type Locality:** "Hall Valley, 12,000', Park Co. Colo." [Colorado]

**Types:** Holotype in CSUC.

## d. **Plebejus lupini spangelatus** Burdick, 1942

Can. Entomol. 74(10): 195-196.

**Original Combination:** *Plebejus lupini spangelatus*

**Type Locality:** "Gray Wolf Range, Olympic Mountains, Clallam Co., Washington"

**Types:** Holotype in CNC.

## e. **Plebejus lupini lupini** (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 46-47, no. 23; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 238, figs. 1961 ♂ D&V, 1962 ♀ D&V.

**Original Combination:** *Lycæna lupini*

**Type Locality:** "le sud de la Californie"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 27.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 27, figs. 192 ♂ D, 193 ♂ V.

= ♀ "immaculata" F. Chermock, 1929

Bull. Brooklyn Entomol. Soc. 24(1): 20.

**Original Combination:** *Plebejus lupini* ab. *immaculata*

**Type Locality:** "Gold Lake district, Sierra Co., Calif." [California]

**Types:** "Holotype" in MGCL.

## f. **Plebejus lupini alpicola** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butts. (14): 192-193, figs. 73 ♂ D, 74 ♂ D (holotype); 75 ♀ D, 76 ♀ V.

**Original Combination:** *Icaricia lupini alpicola*

**Type Locality:** "California: Mono County; Barney Lake, elevation ca. 10,240'-10,400'"

**Types:** Holotype in LACM.

## g. **Plebejus lupini dedeckera** (J. Emmel, T. Emmel & Mattoon, 1998)

Syst. W. N. Am. Butts. (14): 190-191, figs. 65 ♂ D, 66 ♂ V (holotype); 67 ♀ D, 68 ♀ V.

**Original Combination:** *Icaricia acmon dedeckera*

- Type Locality:** "California: Mono County; west slope White Mountains; north-facing slope of Coldwater Canyon, 5,200-5,600' elevation, S.36, T.5S., R.33E."
- Types:** Holotype in LACM.
- h. ***Plebejus lupini argentata*** (J. Emmel, T. Emmel & Mattoon, 1998)  
Syst. W. N. Am. Butts. (14): 191-192, figs. 69 ♂ D, 70 ♂ V (holotype), 71 ♀ D, 72 ♀ V.  
**Original Combination:** *Icaricia lupini argentata*  
**Type Locality:** "California: Inyo County; east end of Nelson Range; slope 0.2 air mile W of junction of Saline Valley Road and Hunter Mountain Road, 5950'-6100' elevation"  
**Types:** Holotype in LACM.
- i. ***Plebejus lupini goodpasturei*** (Austin, 1998)  
Syst. W. N. Am. Butts. (45): 560, figs. 117 ♂ D, 118 ♂ V (holotype); 119 ♀ D, 120 ♀ V.  
**Original Combination:** *Icaricia lupini goodpasturei*  
**Type Locality:** "Nevada: White Pine County; Schell Creek Range, Timber Creek, 5.0 road miles east of Nevada route 486, 2740 m, T18N R65E S25 on USGS Schell Peaks, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- j. ***Plebejus lupini chlorina*** (Skinner, 1902)  
Entomol. News 13(1): 15.  
**Original Combination:** *Lycaena chlorina*  
**Type Locality:** "Tehachapi, Cala." [Kern County, California]  
**Types:** Holotype (ANSP #7048) in ANSP; "type" figured by Howe (1975), Butts. N. Am.: pl. 58, fig. 3 ♂ D&V.  
= *carolyna* J. A. Comstock, 1922  
Bull. South. Calif. Acad. Sci. 21(2): 46, pl. 3, figs. 1 ♂ D (holotype), 2 ♂ V.  
**Original Combination:** *Plebeius carolyna*  
**Type Locality:** "Tehachapi Mts. about five miles from the town of that name. Elevation 5,000 feet" [Kern County, California]  
**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 55, fig. 16 ♂ D.  
= ♀ "transvestitus" Scott, 1981  
Papilio (n.s.) 1: 6.  
**Original Combination:** *Plebejus lupini* male form *transvestitus*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
- k. ***Plebejus lupini monticola*** (Clemence, 1909)  
Can. Entomol. 41(1): 38-39.  
**Original Combination:** *Rusticus [acmon] monticola* n. subsp.  
**Type Locality:** "vicinity of Pasadena, Calif." implied from the title of paper; syntypes from "Upper Arroyo Seco, L. A. County, Cal." [Los Angeles County, California]  
**Types:** Syntypes in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 55, figs. 10 ♂ D, 11 ♀ D, 12 ♀ V, and Howe (1975), Butts. N. Am.: pl. 58, fig. 5 ♂ D&V, 6 ♀ D.  
= ♀ "pallida" Gunder, 1925  
Entomol. News 36(1): 3, no. 3, pl. 1, fig. N ♀ D ("Holotype").  
**Original Combination:** *Plebeius monticola* ab. ♀ *pallida*  
**Type Locality:** "Cajon Pass, San Bernardino Mountains, San Bernardino County, California"  
**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 55, fig. 13 ♀ D.  
= ♀ "malcolmi" Gunder, 1927  
Entomol. News 36(7): 195, no. 2, pl. 5, fig. 2 ♀ D ("Holotype").  
**Original Combination:** *Plebeius monticola* ab. ♀ *malcolmi*  
**Type Locality:** "Ridge Route, Los Angeles County, California"  
**Types:** "Holotype" in AMNH.  
= ♀ "montanus" Gunder, 1929  
Bull. Brooklyn Entomol. Soc. 24(5): 326, pl. 31, fig. 3a ♂ V ("Holotype").  
**Original Combination:** *Plebeius monticola* tr. f. *montanus*  
**Type Locality:** "Cajon Pass, San Bernardino Co., Calif." [California]  
**Types:** "Holotype" in AMNH.  
= ♀ "angelus" Gunder, 1929  
Bull. Brooklyn Entomol. Soc. 24(5): 326, pl. 31, fig. 4a ♀ V ("Holotype").  
**Original Combination:** *Plebeius monticola* tr. f. *angelus*  
**Type Locality:** "Los Angeles, Calif." [Los Angeles County, California]  
**Types:** "Holotype" in AMNH or LACM.
554. ***Plebejus neurona*** (Skinner, 1902)  
Entomol. News 13(1): 15.  
**Original Combination:** *Lycaena neurona*  
**Type Locality:** "Doble, San Bernardino County, Cal." [California]  
**Types:** Holotype (#7047) in ANSP.

Subgenus *Albulina* Tutt, 1909

Nat. Hist. Brit. Butts. 3(6): 154. Type-species: *Papilio pheretes* Hübner, [1806], Samml. europ. Schmett. 1: 45 (= *Papilio atys* Hübner, [1804], Samml. europ. Schmett. 1: pl. 97, figs. 495, 496: a homonym of *Papilio orbitulus* de Prunner, 1798, Lepid. Pedemont.: 75, no. 158), by



original designation.

= *Vacciniina* Tutt, 1909

Nat. Hist. Brit. Butts. 3(6): 154. Type-species: *Papilio optilete* Knoch, 1781, Beitr. Insektengesch. 1: 76, no.3, pl. 5, figs. 5, 6, by original designation. Bálint and K. Johnson (1997), Neue Entomol. Nachr. 40: 7, considered this taxon to be a synonym of *Albulina*.

\*555. **Plebejus optilete** (Knoch, 1781)

Beitr. Insektengesch. 1: 76, no. 3, pl. 5, figs. 5 ♀ D, 6 ♀ V.

**Original Combination:** *Papilio Plebejus Ruralis Optilete*

**Type Locality:** "hiesiger Gegend...Braunschweig" [Brunswick, Germany]

**Types:** Type(s) probably lost.

a. **Plebejus optilete yukona** (W. Holland, 1900)

Entomol. News 11(4): 416-417; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 67, figs. 7 ♂ D, 8 ♀ D, 9 ♂ V.

**Original Combination:** *Lycæna yukona*

**Type Locality:** "mnts. between Mission and Forty-Mile Creeks, Alaska"

**Types:** Syntypes in CMNH.

#### Subgenus **Agriades** Hübner, [1819]

Verz. bekannt. Schmett. (5): 67-68. Type-species: *Papilio glandon* de Prunner, 1798, Lepid. Pedemont: 76, no. 159, by designation of I.C.Z.N. *Opinion* 173. I.C.Z.N. *Opinion* 270 placed *Agriades* on the *Official List of Generic Names in Zoology* as name no. 685.

= ‡*Latoriana* Tutt, [1909]

Nat. Hist. Brit. Butts. 3(6): 155. Type-species: *Papilio glandon* de Prunner, 1798, Lepid. Pedemont: 76, no. 159, by designation of I.C.Z.N. *Opinion* 173. I.C.Z.N. *Opinion* 270 placed *Latoriana* Tutt, [1909] on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 67. A junior objective synonym of *Agriades*.

\*556. **Plebejus glandon** (de Prunner, 1798)

Lepid. Pedemont: 76, no.159.

**Original Combination:** *Pl[ebejus]. R[uralis] Pap[ilio]. Glandon*

**Type Locality:** "In montibus"; "Col du Glandon" suggested from the derivation of the name. [Dauphiné Alps, France]

**Types:** Type(s) probably lost.

I.C.Z.N. *Opinion* 270 placed this name on the *Official List of Specific Names in Zoology* as name no. 91.

In the last half century the names *glandon*, *aquilo*, *franklinii* and *rustica* have all been applied at the species-level to some or all populations of this complex in North America (e.g., L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 127, Ferris (1989), Mem. Lepid. Soc. (3): 35, Opler (1992), Field Guide E. Butts.: 137, (1999), Field Guide W. Butts.: 246). It is unclear whether or not the name *aquilo* should be applied to the North American fauna. Until a lectotype or neotype for *aquilo* is designated, this issue will remain problematic. Nekrutenko (1974), J. Lepid. Soc. 28(3): 281, fig. 1, showed that there are no consistent genitalic characteristics by which *glandon* and *aquilo* may be separated. Yakovlev and Churkin (2003), Helios 4: 148-152, and Churkin (2005), Helios 5: 3-38, discussed the use of the name *glandon* for all of these populations. Since no thorough analysis of North American populations has yet been presented, the following arrangement is tentative.

a. **Plebejus glandon labrador** Schmidt, Scott & Kondla, 2006

*Papilio* (n.s.) 12: 49, pl. 4, 3rd row left center ♂ D&V (holotype).

**Original Combination:** *Agriades glandon labrador*

**Type Locality:** "Smokey Mtn., Labrador City, Labrador, Canada" [Newfoundland and Labrador]

**Types:** Holotype in CNC.

b. **Plebejus glandon franklinii** (J. Curtis, 1835)

*In:* Ross, Voy. Search Northwest Pass., Appendix: lxi, no. 15, pl. A, figs. 8 ♂ D, 9 ♂ V.

**Original Combination:** [*Polyommatus*] *Franklinii*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long., in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatîn regions, Nunavut]

**Types:** Syntype in USNM.

= *suttoni* (W. Holland, 1931)

Butt. Book (rev. ed.): 269, pl. 68, figs. 7 ♂ D, 8 ♀ (actually ♂) D, 9 ♂ V.

**Original Combination:** [*Lycæna aquilo*] var. *suttoni*

**Type Locality:** "Southampton Island in Hudson Bay" [Nunavut]

**Types:** Syntypes in CMNH.

c. **Plebejus glandon lacustris** T. Freeman, 1939

Can. Entomol. 71(8): 180.

**Original Combination:** *Plebeius aquilo* var. *lacustris*

**Type Locality:** "Norway House, Manitoba"

**Types:** Holotype (#4521) in CNC.

d. **Plebejus glandon bryanti** Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 58-59, no. 41.

**Original Combination:** *Plebeius aquilo* race *bryanti*

**Type Locality:** "Black Mountain, 500 ft. altitude" [30 mi SW Aklavik, Northwest Territories]

**Types:** Holotype in AMNH.

= ‡"kohlsaati" Gunder, 1932



- Pan-Pac. Entomol. 8(3): 127.  
**Original Combination:** *Plebeius aquilo* tr. f. *kohlsaati*  
**Type Locality:** "Mt. McKinley National Park, Alaska" [Denali National Park]  
**Types:** "Holotype" in AMNH.
- e. *Plebeius glandon megallo* McDunnough, 1927  
 Can. Entomol. 59(7): 161.  
**Original Combination:** [*Plebeius aquilo*] *megallo*  
**Type Locality:** "Mt. McLean, Lillooet, B. C." [British Columbia]  
**Types:** Holotype (#2503) in CNC.
- f. *Plebeius glandon rustica* (W. H. Edwards, 1865)  
 Proc. Entomol. Soc. Philad. 4[1]: 201, 203-204, no. 7.  
**Original Combination:** *Lycaena Rustica*  
**Type Locality:** "Pikes Peak"; defined as "vicinity of Empire, Clear Creek County, Colorado" by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 404.  
**Types:** Lectotype in MGCL, designated by F. Brown (1970), Trans. Am. Entomol. Soc. 96(3): 406, fig. 21 ♂ D&V.  
 Species-genus gender conformation is *rusticus*.
- g. *Plebeius glandon punctatus* (Austin, 1998)  
 Syst. W. N. Am. Butts. (45): 561, figs. 121 ♂ D, 122 ♂ V (holotype); 123 ♀ D, 124 ♀ V.  
**Original Combination:** *Agriades rusticus punctatus*  
**Type Locality:** "Arizona: Apache County; White Mountains, below Greens Peak, Forest Road 117"  
**Types:** Holotype in MGCL.
- h. *Plebeius glandon cassiope* (J. Emmel & T. Emmel, 1998)  
 Syst. W. N. Am. Butts. (20): 287-289, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Agriades cassiope*  
**Type Locality:** "California, El Dorado County; Sierra Nevada, Lake Tahoe region; slope due south of Dicks Pass, 8,800-9,000' elevation; S.7, T.12 N., R.17 E."  
**Types:** Holotype in LACM.
- i. *Plebeius glandon kelsoni* (J. Emmel & T. Emmel, 1998)  
 Syst. W. N. Am. Butts. (20): 289-290, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Agriades cassiope kelsoni*  
**Type Locality:** "California, Siskiyou County; Trinity Alps; southeast above Caribou Lake, 7,000-7,100' elevation"  
**Types:** Holotype in LACM.
557. *Plebeius podarce* (C. Felder & R. Felder, 1865)  
 This taxon was elevated to the species-level by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29.
- a. *Plebeius podarce cilla* (Behr, 1867)  
 Proc. Calif. Acad. Sci. 3(4) ([sig.]18): 281, no. 12.  
**Original Combination:** *Lycaena*. *Cilla*  
**Type Locality:** "California" implied from the title of the paper, "an elevation of 11,000 feet and over, on the snowy heights surrounding the headwaters of the Tuolumne River" from the description; neotype from "meadow E. of Tioga Pass, Mono County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 103, figs. 64 ♂ D, 65 ♂ V.
- b. *Plebeius podarce podarce* (C. Felder & R. Felder, 1865)  
 Reise Novara (2): 282-283, no. 359, pl. 35, 22 ♂ D, 23 ♂ V.  
**Original Combination:** *Lycaena Podarce*  
**Type Locality:** "California"; defined as "Summit Valley, at S. end of Lake Van Norden, Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 90.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 90, figs. 31 ♂ D, 32 ♂ V.  
 = *tehama* (Reakirt, 1866)  
 Proc. Acad. Nat. Sci. Philad. [18](3): 246, no. 20.  
**Original Combination:** *Lycaena tehama*  
**Type Locality:** "California"  
**Types:** Syntypes in FMNH and (#16011) MCZ; figured by Strecker (1874), Lepid. Rhop. Het. (10): pl. 10, fig. 16 ♂ D&V.  
 = *nestos* (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 50, no. 32; figured by Oberthür (1913), Étud. Lépid. Comp. 9(1): pl. 239, figs. 2074 ♂ D&V, 2075 ♀ D&V.  
**Original Combination:** *Lycaena Nestos*  
**Type Locality:** "les montagnes voisins de l'Oregon" in error; defined as "Summit Valley, at S. end of Lake Van Norden, Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 29.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 30, figs. 216 ♂ D, 217 ♂ V.
- c. *Plebeius podarce klamathensis* (J. Emmel & T. Emmel, 1998)  
 Syst. W. N. Am. Butts. (20): 291, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Agriades podarce klamathensis*  
**Type Locality:** "California: Humboldt County; Waterdog Lake, North Trinity Mountain"  
**Types:** Holotype in LACM.

Family **RIODINIDAE** Grote, 1895 (1827)

Mitt. Roemer Mus. Hildesheim (1): [2], [4] (as “Riodinidae” “Riodininae” “Riodinini”). Type-genus: *Riodina* Westwood, 1851, in: Gen. diurn. Lepid. 2(47): 430. I.C.Z.N. *Opinion 1073* placed Riodinidae (with the date as given) on the *Official List of Family-group Names in Zoology* as name no. 484, and placed *Riodina* on the *Official List of Generic Names in Zoology* as name no. 2039.

Subfamily **Riodininae** Grote, 1895 (1827)Tribe **Riodinini** Grote, 1895 (1827)Genus **Calephelis** Grote & Robinson, 1869

Trans. Am. Entomol. Soc. 2(3): 310-311. Type-species: *Erycina virginiensis* G. Gray, 1832, in Griffith, Cuvier's Anim. Kingd. 15(2): pl. 58, figs. 1, 1a (= *Erycinia virginiensis* Guérin-Méneville, [1832], Icon. Règne Anim. Cuvier (Ins.) 2(18): pl. 81, figs. 1, 1a; 3: 489 [1844]), by designation of I.C.Z.N. *Opinion 755*; the same *Opinion* placed this name on the *Official List of Generic Names in Zoology* as name no. 1694.

= ‡*Lephelisca* W. Barnes & Lindsey, 1922

Ann. Entomol. Soc. Am. 15(1): 93. Type-species: *Erycina virginiensis* Guérin-Méneville, [1831], Icon. Règne Anim. Cuvier (Ins.) 2(18): pl. 81, figs. 1, 1a; 3: 489 [1844], by original designation. I.C.Z.N. *Opinion 755* placed this name on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 1774.

558. **Calephelis borealis** (Grote & Robinson, 1866)

Ann. N. Y. Lyc. Nat. Hist. 8: 351-352.

**Original Combination:** *Nymphidia borealis*

**Type Locality:** “New York State...near Upper Coldenham, Orange Co., N. Y., about nine miles west of Newburgh, on the Hudson”

**Types:** Location of type(s) not known, possibly in NYSM.

‡“geda” Scudder, 1876

Bull. Buffalo Soc. Nat. Sci. 3: 102.

**Original Combination:** [*Calephelis borealis*] (= *Geda*) (Boisduval manuscript)

A manuscript name credited to Boisduval, listed in the synonymy of *borealis* without a description or indication; a *nomen nudum*.

559. **Calephelis muticum** McAlpine, 1937

Bull. Brooklyn Entomol. Soc. 32(2): 43-46, pl. 20, figs. 1 ♂ D, 3 ♂ V (holotype); 2 ♀ D, 4 ♀ V, 5 venation, 6 ♂ genitalia, 7 ♂ genitalia.

**Original Combination:** *Calephelis muticum*

**Type Locality:** “Willis, Washtenaw Co., Mich.” [Michigan]

**Types:** Holotype in USNM.

560. **Calephelis virginiensis** (Guérin-Méneville, [1832])

Icon. Règne Anim. Cuvier (Ins.) 2(18): pl. 81, figs. 1 ♂ D, 1a ♂ V [1832]; 3: 489 [1844].

**Original Combination:** *Erycinia Virginiensis*

**Type Locality:** “l’Amérique du Nord”; “Virginia” implied from the formation of the name.

**Types:** Probably lost; the “type” in the BMNH figured by McAlpine (1971), J. Res. Lepid. 10(1): fig. 7, no. 1 ♂ D&V, is probably not a syntype. I.C.Z.N. *Opinion 755* placed this name on the *Official List of Specific Names in Zoology* as name no. 2104. Authorship is often credited to G. Gray (1832), in: Griffith, Cuvier's Anim. Kingd. 15(2): pl. 58, figs. 1, 1a, which is a subsequently published English edition of Guérin-Méneville [1832].

= ‡*pumila* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (12): pl. 37, figs. 6 ♂ D, 7 ♂ V; (14): 131.

**Original Combination:** *Nymphidia Pumila*

**Type Locality:** “Géorgie et la Floride”

**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection, possibly in USNM or MNHP.

= *louisiana* W. Holland, 1929

Entomol. News 40(1): 20; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 9 ♂ D, 9a ♂ V.

**Original Combination:** *Calephelis louisiana*

**Type Locality:** “Opelousas, Louisiana” [Evangeline Parish]

**Types:** Holotype in CMNH.

561. **Calephelis nemesi** (W. H. Edwards, 1871)

a. **Calephelis nemesi australis** (W. H. Edwards, 1877)

Field & Forest 3(5): 87-88.

**Original Combination:** *Charis Australis*

**Type Locality:** “San Antonio” [Bexar County, Texas]

**Types:** Lectotype in CMNH, designated by McAlpine (1968), in: F. Brown, Trans. Am. Entomol. Soc. 94(2): 130, fig. 6 ♀ D&V.

= *guadeloupe* (Strecker, [1878])

Lepid. Rhop. Het. (14): 131.

**Original Combination:** *Charis Guadeloupe*

**Type Locality:** Not stated; “vicinity of New Braunfels and San Antonio, Southwestern Texas” implied from the introductory



text. [Comal and Bexar counties]

**Types:** Syntypes in FMNH.

- b. ***Calephelis nemesi nemesi*** (W. H. Edwards, 1871)  
Trans. Am. Entomol. Soc. 3(2): 205, 212, no. 13.  
**Original Combination:** *Charis Nemesi*  
**Type Locality:** "Arizona"; defined as "vicinity of Tucson, Pima Co., Arizona" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 126-127.  
**Types:** Holotype in CMNH, figured by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 127, fig. 5 ♂ D&V.
- c. ***Calephelis nemesi dammersi*** McAlpine, 1971  
J. Res. Lepid. 10(1): 31-33, no. 5B, fig. 7, no. 5B ♂ D&V (holotype), ♀ D&V, fig. 17, no. 5B ♂&♀ genitalia.  
**Original Combination:** *Calephelis nemesi dammersi*  
**Type Locality:** "Blythe, Riverside Co., California"  
**Types:** Holotype in LACM.  
= *californica* McAlpine, 1971  
J. Res. Lepid. 10(1): 34-35, no. 5C, fig. 8, no. 5C ♂ D&V (holotype), ♀ D&V, fig. 17, no. 5C ♂&♀ genitalia.  
**Original Combination:** *Calephelis nemesi californica*  
**Type Locality:** "Riverside, Riverside Co., California" inferred from text.  
**Types:** Holotype in LACM.  
Precedence is herein accorded to *dammersi* over *californica* (Code Article 24.2.2).
562. ***Calephelis perditalis*** W. Barnes & McDunnough, 1918  
a. ***Calephelis perditalis perditalis*** W. Barnes & McDunnough, 1918  
Contr. Nat. Hist. Lepid. N. Am. 4(2): 75-76, pl. 12, figs. 5 ♂ D, 6 ♀ V, 7 ♀ D.  
**Original Combination:** *Calephelis perditalis*  
**Type Locality:** "San Benito, Texas" [Cameron County]  
**Types:** Syntypes in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 7, 7a ♂ D&V, and McAlpine (1971), J. Res. Lepid. 10(1): figs. 9 no. 11 ♂ D&V, ♀ D&V.
563. ***Calephelis wrighti*** W. Holland, 1930  
Ann. Carnegie Mus. 20(1): 5-6; cited W. G. Wright (1905), Butts. W. Coast: pl. 28, figs. 303 ♂ [not ♀], 303a ♂ D&V (holotype).  
**Original Combination:** *Calephelis wrighti*  
**Type Locality:** Not stated; suggested to be "near Mendocino" by W. G. Wright (1905) *ibid.*; defined as "the Coachella Valley" by J. A. Comstock (1935), Bull. South. Calif. Acad. Sci. 34(2): 148; subsequently suggested to be "oases in the deserts of Southern California, especially Riverside and San Diego Counties" by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 30.  
**Types:** Holotype (#4357) in CAS.
564. ***Calephelis rawsoni*** McAlpine, 1939  
Bull. Brooklyn Entomol. Soc. 34(2): 75-77, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V, 7 venation, 8 ♂ genitalia, 9 ♂ genitalia.  
**Original Combination:** *Calephelis rawsoni*  
**Type Locality:** "Kerrville, Texas"; suggested to be "Lacey's ranch about seven miles southwest of Kerrville on Turtle Creek" by R. Kendall and C. Kendall (1971), J. Lepid. Soc. 25(1): 37. [Kerr County]  
**Types:** Holotype (#27656) in AMNH.
565. ***Calephelis freemani*** McAlpine, 1971  
J. Res. Lepid. 10(1): 53-55, no. 15, fig. 9, no. 15 ♂ D&V (holotype), ♀ D&V, fig. 20, no. 15 ♂&♀ genitalia.  
**Original Combination:** *Calephelis freemani*  
**Type Locality:** "Davis Mts., Jeff Davis County, Texas, about twelve miles northwest of Alpine, Texas, along State highway 118"  
**Types:** Holotype in USNM.
566. ***Calephelis arizonensis*** McAlpine, 1971  
J. Res. Lepid. 10(1): 55-57, no. 16, fig. 9, no. 16 ♂ D&V (holotype), ♀ D&V, fig. 20, no. 16 ♂&♀ genitalia.  
**Original Combination:** *Calephelis arizonensis*  
**Type Locality:** "Brown Canyon, Baboquivari Mts., Pima Co., Arizona"  
**Types:** Holotype in USNM.

#### Genus *Caria* Hübner, 1823

Zutr. Samml. exot. Schmett. 2: 14. Type-species: *Caria colubris* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: pl. [44], figs. 251, 252; 14, no. 126 (= *Hesperia plutargus* Fabricius, 1793, Entomol. Syst. 3(1): 329-330, no. 251; synonym), by monotypy.

- \*567. ***Caria ino*** (Godman & Salvin, 1886)  
Biol. centr.-amer., Lepid. Rhop. 3(44): pl. 43, figs. 22 ♂ D, 23 ♂ V, 24 ♀ D, 25 ♀ V (as *Symmachia ino*) (1886); 1(45): 449, no. 3 (as *Caria ino*); 2(167): 705 (1901).  
**Original Combination:** *Symmachia ino*  
**Type Locality:** "Mexico, Ventanas"; this was interpreted to be "Villa Corona, Durango" by Selander and Vaurie (1962), Am. Mus. Novit. (2009): 65.  
**Types:** Syntypes in BMNH; one figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 3 ♂ D, 3a ♂ V.
- a. ***Caria ino melicerta*** Schaus, 1890  
Entomol. Am. 6(1): 18-19.  
**Original Combination:** *Caria melicerta*  
**Type Locality:** "Paso de San Juan" [Veracruz, Mexico]



**Types:** Lectotype in USNM, designated by Clench (1967), J. Lepid. Soc. 21(1): 56; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 2 ♂ D, 2a ♂ V.

**Genus *Lasaia* H. Bates, 1868**

J. Linn. Soc. Lond., Zool. 9(7): 397. Type-species: *Papilio meris* Stoll, 1781, Uidl. Kapellen 4(31): 146, pl. 366, figs. B, C; (34): 250 (index), by designation of Stichel (1911), in: Wytsman, Gen. Ins. 112(A): 184, 185.

= ‡*Talites* Capronnier, 1874

Annls. Soc. Entomol. Belg. 17: 20. Type-species: *Papilio meris* Stoll, 1781, Uidl. Kapellen 4(31): 146, pl. 366, figs. B, C; (34): 250 (index), by designation of Hemming (1935), Stylops 4(1): 2. A junior objective synonym of *Lasaia* Bates, 1868.

= ‡*Lasaia* Glaser, 1887

Cat. etymol. Coleopt. Lepidopt.: 279. An unjustified emendation of *Lasaia* H. Bates, 1868.

sessilis group Clench, 1972

J. Res. Lepid. 10(2): 155, 163.

568. ***Lasaia maria* Clench, 1972**

**a. *Lasaia maria maria* Clench, 1972**

J. Res. Lepid. 10(2): 164-166, no. 3, figs. 3 ♂ genitalia, 12 ♂ D, 13 ♂ V (holotype), 14 ♀ D, 15 ♀ V; cited *Lasaia sula* (*sensu* Stichel (1910), Gen. Insectorum 112(A): 186, pl. 26, fig. 49 ♂ D&V), and *Lasaia sessilis* (*sensu* Seitz (1917), in: Seitz, Grossschmett. Erde 5(258): 692; (282): pl. 142f, figs. [1] ♂ V, [3] ♂ D).

**Original Combination:** *Lasaia maria*

**Type Locality:** "Ajijic, 5300 ft., Jalisco, Mexico"

**Types:** Holotype (#645) in CMNH.

Recorded from Arizona by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 31.

agesilaus group Clench, 1972

J. Res. Lepid. 10(2): 155, 171.

\*569. ***Lasaia sula* Staudinger, 1888**

In: Staudinger and Schatz, Exot. Schmett. 1(1)(20): 257.

**Original Combination:** [*Lasaia Narses*] var. *Sula*

**Type Locality:** "San Pedro de Sula" [Honduras]

**Types:** Lectotype in ZMHB, designated by Clench (1972), J. Res. Lepid. 10(2): 173, no. 7b, figs. 24 ♂ D, 25 ♂ V.

**a. *Lasaia sula peninsularis* Clench, 1972**

J. Res. Lepid. 10(2): 172-173, no. 7a, figs. 7 ♂ genitalia, 20 ♀ D, 21 ♀ V; 22 ♂ D, 23 ♂ V (holotype).

**Original Combination:** *Lasaia sula peninsularis*

**Type Locality:** "Pisté, Yucatán, Mexico"

**Types:** Holotype (#648) in CMNH.

**Genus *Melanis* Hübner, [1819]**

Verz. bekannt. Schmett. (2): 25. Type-species: *Papilio melander* Stoll, 1780, Uidl. Kapellen 4(28): 89, pl. 336, fig. B (not A); (34): 250 (index) (= *Melanis melandra* Hübner, [1819], Verz. bekannt. Schmett. (2): 25; homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 214, no. 671.

= *Lymanas* Blanchard, 1840

In: Castelnau, Hist. Nat. Ins. 3: 464. Type-species: *Hesperia electron* Fabricius, 1793, Entomol. Syst. 3(1): 321, no. 214, by original designation.

= ‡*Limnas* Boisduval, 1836

Spec. gén. Lépid. 1: pl. 20 (= 4C), fig. 1. Type-species: *Limnas pixe* Boisduval, 1836, Spec. gén. Lépid. 1: pl. 20 [=4C], fig. 1, by monotypy. Preoccupied by *Limnas* Hübner, [1806], Samml. exot. Schmett. 1: pl. [29].

= ‡*Dryas* C. Felder & R. Felder, 1865

Reise Novara (2): 305. Type-species: *Limnas cinaron* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(4): 101, no. 69, by monotypy. Preoccupied by *Dryas* Hübner, [1807], Samml. exot. Schmett. 1: pls. [43], [44].

= ‡*Oreas* C. Felder & R. Felder, 1865

Reise Novara (2): 305. Type-species: *Oreas marathos* C. Felder & R. Felder, 1865, Reise Novara (2): 305, no. 411, pl. 38, figs. 3, 4, by designation of Hemming (1964), Annot. Lepid. (4): 129. Preoccupied by *Oreas* Hübner, [1807], Samml. exot. Schmett. 1: pl. [82].

= *Acullhua* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 301. Type-species: *Limnas cinaron* C. Felder & R. Felder, 1861, Wien. Entomol. Montaschr. 5(4): 101, as a replacement name. Proposed to replace *Dryas* C. Felder & R. Felder, 1865, Reise Novara (2): 305, preoccupied (Code Articles 60.3, 67.8).

= *Rusalkia* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 306. Type-species: *Oreas marathos* C. Felder & R. Felder, 1865, Reise Novara (2): 305, no. 411, pl. 38, figs. 3, 4, by designation of W. F. Kirby [1873], Zool. Rec. 8(1871)(Ins.): 364. Proposed to replace *Oreas* C. Felder & R. Felder, 1865, preoccupied (Code Article 60.3).

570. ***Melanis pixe* (Boisduval, 1836)**

**a. *Melanis pixe pixe* (Boisduval, 1836)**

Spec. gén. Lépid. 1: pl. 20 [=4C], fig. 1 ♂ D, 5 ♂ V; explication plate.

**Original Combination:** *Limnas Pixe*

**Type Locality:** "Mexique"

**Types:** Location of type(s) not known.

= *gynaeceas* (Godman & Salvin, 1889)

Ann. Mag. Nat. Hist. (6)3(16): 356, no. 12; figured by Godman (1901), *in*: Godman & Salvin, Biol. centr-amer., Lepid. Rhop. 3(167): pl. 110, fig. 3 ♀ D.

**Original Combination:** *Limnas gynaeceas*

**Type Locality:** "Mexico, Cuesta de Misantla" [Veracruz]

**Types:** Holotype in BMNH.

= *sexpunctata* (Seitz, 1917)

*In*: Seitz, Grossschmett. Erde 5(256): 659.

**Original Combination:** [*Lymnas pixe*] form *sexpunctata*

**Type Locality:** "Guerrero" [Mexico]

**Types:** Location of type(s) not known.

#### Tribe **Emesiini** Stichel, 1911

*In*: Wytsman, Gen. Ins. 112(B): 259. Type-genus: *Emesis* [Fabricius], 1807, *in*: Illiger Mag. f. Insektenk. 6: 287, no. 38.

#### Genus **Emesis** [Fabricius], 1807

*In*: Illiger Mag. f. Insektenk. 6: 287, no. 38. Type-species: *Hesperia ovidius* Fabricius, 1793, Entomol. Syst. 3(1): 320, no. 212 (= *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), by designation of Westwood (1851), *in*: Gen. diurn. Lepid. 2(47): 421. I.C.Z.N. Opinion 232 placed this name on the *Official List of Generic Names in Zoology* as name no. 660.

= *Polystichtis* Hübner, [1819]

Verz. bekannt. Schmett. (2): 18. Type-species: *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 49.

= *Aphacitis* Hübner, [1819]

Verz. bekannt. Schmett. (2): 19. Type-species: *Papilio dyndima* Cramer, 1780, Utitl. Kapellen 3(23): 142, pl. 271, figs. G, H; (24): 174 (index) (= *Papilio lucinda* Cramer, 1775, Utitl. Kapellen 1(1): 3, pl. 1, figs. E, F; (8): 153 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 116, no. 99.

= ‡*Tapina* Billberg, 1820

Enum. Ins. Mus. Billb.: 81. Type-species: *Hesperia ovidius* Fabricius, 1793, Entomol. Syst. 3(1): 320 (= *Papilio cereus* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), as a replacement name. Proposed to replace *Emesis* [Fabricius], 1807, erroneously thought preoccupied; a junior objective synonym of *Emesis*.

= *Nimula* Blanchard, 1840

*In*: Castelnau, Hist. Nat. Ins. 3: 465. Type-species: *Papilio lucinda* Cramer, 1775, Utitl. Kapellen 1(1): 3, pl. 1, figs. E, F; (8): 153 (index), by original designation.

= ‡*Polytichthis* Agassiz, 1847

Nomencl. Zool. (4to ed.) (12) (index univ.): 304. An unjustified emendation of *Polystichtis* Hübner, [1819].

= *Nelone* Boisduval, 1870

Consid. Lépid. Guat.: 23. Type-species: *Papilio fatima* Cramer, 1780, Utitl. Kapellen 3(23): 141, pl. 271, fig. A (only); (24): 174 (index) (= *Papilio cerea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): errata; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 225.

\*571. **Emesis zela** Butler, 1870

Ann. Mag. Nat. Hist. (4)5(29): 364; figured by Butler (1871), Lepid. exot. (2): 40, pl. 14, fig. 1 ♂ D.

**Original Combination:** *Emesis Zela*

**Type Locality:** "Venezuela...Mexico"

**Types:** Syntypes in BMNH.

a. **Emesis zela cleis** (W. H. Edwards, 1882)

*Papilio* 2(8): 137.

**Original Combination:** *Lemonias Cleis*

**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]

**Types:** Lectotype in CMNH, designated by F. Brown and Clench (1968), *in*: F. Brown, Trans. Am. Entomol. Soc. 94(2): 134-135, fig. 8 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 28, fig. 19 ♂ D (lectotype), fig. 20 ♀ D (paralectotype).

The male "cotype" of *Lemonias ares* W. H. Edwards, 1882, is this species.

572. **Emesis ares** (W. H. Edwards, 1882)

*Papilio* 2(8): 136-137.

**Original Combination:** *Lemonias Ares*

**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]

**Types:** Lectotype in CMNH, designated by F. Brown and Clench (1968), *in*: F. Brown, Trans. Am. Entomol. Soc. 94(2): 133, fig. 7 ♀ D&V.

Callaghan and Lamas (2004), *in*: Lamas, Atl. Neotrop. Lepid. Chcklst. Part 4A: 161, erroneously synonymized this species under *E. zela*.

573. **Emesis emesia** (Hewitson, 1867)

Ill. exot. Butts. 4(61): [16], pl. *Symmachia* [45], fig. 7 ♂ D.

**Original Combination:** *Symmachia Emesia*



**Type Locality:** “Nicaragua”

**Types:** Holotype in BMNH.

= *yucatanensis* Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(44): 416, no. 2.

**Original Combination:** *Symmachia yucatanensis*

**Type Locality:** “Mexico, Valladolid in Yucatan”

**Types:** Syntypes in BMNH.

Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 2(167): 702, determined this synonymy.

574. ***Emesis tenedia*** C. Felder & R. Felder, 1861

Wien. entomol. Monatschr. 5(4): 99, no. 61.

**Original Combination:** *Emesis Tenedia*

**Type Locality:** “Venezuela...Nova Granada in provincia Bogotá, prope pagum Muza”

**Types:** Syntypes possibly in BMNH.

Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 19, pl. 1, figs. 5a, 5b.

#### Genus *Apodemia* C. Felder & R. Felder, 1865

Reise Novara Zool. (2): 302. Type-species: *Lemonias mormo* C. Felder & R. Felder, 1859, Wien. Entomol. Montaschr. 3(9): 271, no. 19, by designation of Stichel (1911), in: Wytzman, Gen. Ins. 112(B): 285, 287.

= *Chrysobia* Boisduval, 1869

Annls. Soc. Entomol. Belg. 12: 52. Type-species: *Chrysobia mormonia* Boisduval, 1869, Annls. Soc. Entomol. Belg. 12: 52 (= *Lemonias mormo* C. Felder & R. Felder, 1859, Wien. Entomol. Montaschr. 3(9): 271, no. 19; synonym), by original designation.

= *Polystigma* Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(45): 469. Type-species: *Chrysophanus nais* W. H. Edwards, 1877, Trans. Am. Entomol. Soc. 5(3/4): 291-292, by monotypy. Preoccupied by *Polystigma* Kraatz, 1880, Dtsche. Entomol. Z. 24(2): 191.

575. ***Apodemia mormo*** (C. Felder & R. Felder, 1859)

Several recent authors (e.g., G. Forbes (1979), J. Res. Lepid. 18(3): 201-207, Pratt and Balmer (1991), J. Lepid. Soc. 45(1): 46-57) strongly suggested that this complex, previously considered a single species, includes multiple species-level taxa. However, at this time there is no consensus on species-level boundaries. The arrangement presented herein is partly based on studies cited above, as well as Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 31, K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, but should be considered tentative.

a. ***Apodemia mormo mormo*** (C. Felder & R. Felder, 1859)

Wien. Entomol. Montaschr. 3(9): 271, no. 19; figured by C. Felder and R. Felder (1865), Reise Novara (2): 302, pl. 37, figs. 15 ♂ D, 16 ♂ V.

**Original Combination:** *Lemonias Mormo*

**Type Locality:** “Salzsee”; suggested to be “eastern flanks of the Californian or Nevadan mountains somewhere west of the general region of Reno and Carson City, Nevada” by F. Brown (1967), J. Lepid. Soc. 21(4): 272; defined as “near Pyramid Lake, Washoe Co., Nevada” by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (3): 131; subsequently defined as “Davis Creek Park, W. of Washoe Lake, Washoe County, Nevada” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89, figs. 16 ♂ D, 17 ♂ V.

= *dumeti* (Behr, 1865)

Proc. Calif. Acad. Sci. 3(2) ([sig.]12): 178.

**Original Combination:** *N[emeobius]. Dumeti*

**Type Locality:** “California” implied from the title of the paper, “always in localities that are covered by...Chaparral” from the description; neotype from “Davis Creek Park, west of Washoe Lake, Washoe County, Nevada.”

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 104, figs. 73 ♂ D, 74 ♂ V. This is the lectotype of *Chrysobia mormonia*, making *dumeti* a senior objective synonym of *mormonia*.

= *mormonia* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 52.

**Original Combination:** *Chrysobia mormonia*

**Type Locality:** “l’Oregon” in error; suggested to be “Davis Creek Park, W. of Washoe Lake, Washoe County, Nevada” by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 31.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 31, figs. 228 ♂ D, 229 ♂ V.

b. ***Apodemia mormo parva*** Austin, 1998

Syst. W. N. Am. Butts. (45): 562, figs. 129 ♂ D, 130 ♂ V (holotype); 131 ♀ D, 132 ♀ V.

**Original Combination:** *Apodemia mormo parva*

**Type Locality:** “Nevada: Eureka County; west slope of Diamond Mountains, Nevada state route 46, 0.8 miles north of Eureka, 1951 m, T19N R53E S12 on USGS Eureka, Nev. 15’ quadrangle”

**Types:** Holotype in MGCL.

c. ***Apodemia mormo autumnalis*** Austin, 1998

Syst. W. N. Am. Butts. (45): 561-562, figs. 125 ♂ D, 126 ♂ V (holotype); 127 ♀ D, 128 ♀ V.

**Original Combination:** *Apodemia mormo autumnalis*

**Type Locality:** “Nevada: Clark County; Spring Mountains, 2 road miles north of Red Cloud Mine, 1829 m, T24S R58 S5 on USGS Goodsprings, Nev. 15’ quadrangle”

**Types:** Holotype in MGCL.



- d. **Apodemia mormo cythera** (W. H. Edwards, 1873)  
Trans. Am. Entomol. Soc. 3(3/4): 345-346; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 3 ♂ V, 4 ♂ D.  
**Original Combination:** *Lemonias Cythera*  
**Type Locality:** "Arizona"; defined as "vicinity of Truxton, Arizona" by F. Brown [1958], J. N. Y. Entomol. Soc. 65(3/4): 231; suggested to be "the area of Independence, California" by Opler and Powell (1962), J. Lepid. Soc. 15(3): 154-155; neotype from "9 mi. w. Lone Pine." [Inyo County, California]  
**Types:** Neotype in EMEC, designated by Opler (1968), in: F. Brown, Trans. Am. Entomol. Soc. 94(2): 119, fig. 1 ♂ D&V. K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, suggested that this may be a species-level taxon.
- e. **Apodemia mormo tuolumnensis** Opler & Powell, 1962  
J. Lepid. Soc. 15(3): 159-160, pl. top, 3rd row right ♂ D, bottom, 3rd row, right ♂ V (holotype).  
**Original Combination:** *Apodemia mormo tuolumnensis*  
**Type Locality:** "Grand Canyon of the Tuolumne, Yosemite National Park, Tuolumne County, California"  
**Types:** Holotype in CAS.  
K. Davenport (2004), Tax. Rep. Int. Lepid. Surv. 4(7): 13, and (2004), Tax. Rept. Int. Lepid. Surv. 5(1): 35, suggested that this may be a subspecies of *A. cythera*.
- f. **Apodemia mormo langei** J. A. Comstock, 1939  
Bull. South. Calif. Acad. Sci. 37(3): 129-131, pl. 50, figs. 1 ♂ D (holotype), 2 ♀ D.  
**Original Combination:** *Apodemia mormo langei*  
**Type Locality:** "Antioch, Contra Costa County, California"  
**Types:** Holotype in LACM.
576. **Apodemia virgulti** (Behr, 1865)
- a. **Apodemia virgulti peninsularis** J. Emmel, T. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (68): 805, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Apodemia mormo peninsularis*  
**Type Locality:** "California: San Diego County; Laguna Mountains; northeast edge of El Prado Meadow, 5,500' elevation; SE 1/4 of S.3, T.15S., R.5E."  
**Types:** Holotype in LACM.
- b. **Apodemia virgulti virgulti** (Behr, 1865)  
Proc. Calif. Acad. Sci. 3(2) ([sig.] 12): 178.  
**Original Combination:** *N[emeobius]. Virgulti*  
**Type Locality:** "California" implied from the title of the paper, "near Los Angeles" from the description; neotype from "La Tuna Canyon, 1200' elevation, Verdugo Mountains, Los Angeles County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 104, figs. 76 ♂ D, 77 ♂ V.  
= *sonorensis* C. Felder & R. Felder, 1865  
Reise Novara (2): 303, no. 407.  
**Original Combination:** *Apodemia Sonorensis*  
**Type Locality:** "Sonora"; defined as "La Tuna Canyon, 1200 ft. elev., Verdugo Mts., Los Angeles County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89, figs. 19 ♂ D, 20 ♂ V.
- c. **Apodemia virgulti arenaria** J. Emmel & T. Emmel, 1998  
Syst. W. N. Am. Butts. (67): 806, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.  
**Original Combination:** *Apodemia mormo arenaria*  
**Type Locality:** "California: Los Angeles County; El Segundo sand dunes; foredunes area 0.1-0.2 air mile NNE of intersection Imperial Highway and Vista Del Mar, 100'-150' elevation"  
**Types:** Holotype in LACM.
- d. **Apodemia virgulti nigrescens** J. Emmel & T. Emmel, 1998  
Syst. W. N. Am. Butts. (67): 796-797, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Apodemia mormo nigrescens*  
**Type Locality:** "California: San Bernardino County; Colton; sandy area 0.1 air mile NW of intersection of Pepper St. and Slover Ave., ca 0.8 air mile WNW of Slover Mt., 1040' elev.; SE 1/4 of S. 24, T.1S, R.5W."  
**Types:** Holotype in LACM.
- e. **Apodemia virgulti pratti** J. Emmel & T. Emmel, 1998  
Syst. W. N. Am. Butts. (67): 795-796, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Apodemia mormo pratti*  
**Type Locality:** "California: San Bernardino County; San Bernardino Mountains; Holcomb Valley"  
**Types:** Holotype in LACM.
- f. **Apodemia virgulti dialeucoides** J. Emmel, T. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (68): 804, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.  
**Original Combination:** *Apodemia mormo dialeucoides*  
**Type Locality:** "California: San Bernardino County; San Bernardino Mountains; Sugarloaf Mountain"  
**Types:** Holotype in LACM.
- g. **Apodemia virgulti mojavelimbus** J. Emmel, T. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (68): 803, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Apodemia mormo mojavelimbus*  
**Type Locality:** "California: San Bernardino County; Ord Mountains...north slope of the San Bernardino Mountains"

Types: Holotype in LACM.

- h. **Apodemia virgulti davenporti** J. Emmel, T. Emmel & Pratt, 1998  
Syst. W. N. Am. Butts. (68): 801-802, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Apodemia mormo davenporti*

**Type Locality:** "California: Kern County; Walker Pass, 5,300' elevation"

Types: Holotype in LACM.

577. **Apodemia mejicanus** (Behr, 1865)

- a. **Apodemia mejicanus mejicanus** (Behr, 1865)

Proc. Calif. Acad. Sci. 3(2) ([sig.] 12): 178, 179.

**Original Combination:** *N[emeobius]. Mejicanus*

**Type Locality:** "the Sierra Madre, in the neighborhood of Mazatlan" [Sinaloa, Mexico].

Types: Type(s) destroyed in the 1906 San Francisco earthquake and fire.

- b. **Apodemia mejicanus pueblo** Scott, 1998

Papilio (n.s.) 11: 4, fig. 7 ♂ D (holotype), 8 ♀ D.

**Original Combination:** *Apodemia mormo pueblo*

**Type Locality:** "S of Security, El Paso Co. Colo." [Colorado]

Types: Holotype in BMNH.

- c. **Apodemia mejicanus deserti** W. Barnes & McDunnough, 1918

Contr. Nat. Hist. Lepid. N. Am. 4(2): 75, pl. 12, figs. 1 ♂ D, 2 ♀ D.

**Original Combination:** *Apodemia mormo deserti*

**Type Locality:** "La Puerta Valley, S. Calif." [San Diego County, California]

Types: Syntypes in USNM.

578. **Apodemia duryi** (W. H. Edwards, 1882)

Papilio 2(3): 45, 47-48, no. 4.

**Original Combination:** *Lemonias Duryi*

**Type Locality:** "New Mexico, about five miles east of Mesilla, in some foothills of the Organ Mts." [Dona Ana County]

Types: Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 213, pl. 28, fig. 10 ♀ D; figured by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 121, fig. 2 ♀ D&V.

579. **Apodemia palmerii** (W. H. Edwards, 1870)

- a. **Apodemia palmerii palmerii** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 195, no. 11; figured by W. H. Edwards (1883), Butts. N. Am. 2(11): pl. Lemonias 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Lemonias Palmerii*

**Type Locality:** "Utah"; suggested to be "Littlefield, Mohave Co., Arizona: 1846', T40N R15W, 36° 53' N/113° 56' W" by F. Brown (1967), J. Lepid. Soc. 21(2): 134; defined as "St. George, Washington Co., Utah" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 121.

Types: Holotype in CMNH, figured by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 122, fig. 3 ♂ D&V.

= *marginalis* (Skinner, 1920)

Entomol. News 31(6): 175.

**Original Combination:** *Lemonias palmeri marginalis* n. var.

**Type Locality:** "Acme, California"

Types: Holotype (#7041) in ANSP; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 64, fig. 1 ♂ D.

- b. **Apodemia palmerii arizona** Austin, [1989]

J. Res. Lepid. (1-4): 130-132, figs. 2a top left ♂ D (holotype), top right ♀ D, 2b top left ♂ V (holotype), top right ♀ V.

**Original Combination:** *Apodemia palmerii arizona*

**Type Locality:** "Arizona: Cochise County, Arizona State Route 90, 10.8 miles north of Arizona State Route 82"

Types: Holotype in MGCL.

580. **Apodemia hepburni** Godman & Salvin, 1886

- a. **Apodemia hepburni hepburni** Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(45): 468, no. 5; 3: pl. 47, figs. 11 ♂ D, 12 ♂ V.

**Original Combination:** *Apodemia hepburni*

**Type Locality:** "Mexico, Pinos Altos in Chihuahua"

Types: Holotype in BMNH.

581. **Apodemia walkeri** Godman & Salvin, 1886

Biol. centr.-amer., Lepid. Rhop. 1(45): 468, no. 6; 3: pl. 47, figs. 13 ♂ D, 14 ♂ V.

**Original Combination:** *Apodemia walkeri*

**Type Locality:** "Mexico, Acapulco" [Guerrero]

Types: Holotype in BMNH.

582. **Apodemia multiplaga** Schaus, 1902

Proc. U. S. Nat. Mus. 24(1262): 404.

**Original combination:** *Apodemia Multiplaga*

**Type Locality:** "Rinconada, Mexico" [Veracruz]

Types: Holotype (#5912) in USNM; "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 4 ♂ D, 4a ♂ V.

583. **Apodemia phyciodoides** W. Barnes & Benjamin, 1924 †

Contr. Nat. Hist. Lepid. N. Am. 5(3): 99-100.

**Original Combination:** *Apodemia phyciodoides*

**Type Locality:** "Chiracahua Mts., Cochise Co., Ariz." [Arizona]



**Types:** Holotype in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 5 ♂ D, 5a ♂ V (holotype), 6 ♀ D, 6a ♀ V ("allotype"), and Howe (1975), Butts. N. Am.: pl. 48, fig. 31 ♂ D&V.

This species may be extirpated from the United States, present but currently undetected, or the type specimens may have been originally mislabeled (see R. Holland and Forbes (1981), J. Lepid. Soc. 35(3): 226-232, fig. 2 ♂ D&V).

584. **Apodemia nais** (W. H. Edwards, 1877)

Trans. Am. Entomol. Soc. 5(3/4): 291; figured by W. H. Edwards (1883), Butts. N. Am. 2(11): pl. Lemonias 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Chrysophanus Nais*

**Type Locality:** "Southern California...Prescott, Arizona"; defined as "Prescott, Arizona" by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 124. [Yavapai County]

**Types:** Lectotype in CMNH, designated by F. Brown (1968), Trans. Am. Entomol. Soc. 94(2): 125-126, fig. 4 ♀ D&V; figured by W. Holland (1898), Butt. Book: pl. 28, fig. 9 ♀ D.

585. **Apodemia chisosensis** H. Freeman, 1964

J. Lepid. Soc. 18(2): 75, 77, pl. 1, right, top ♂ D, 2nd ♂ V (holotype), 3rd ♀ D, 4th ♀ V, bottom ♂ genitalia.

**Original Combination:** *Apodemia chisosensis*

**Type Locality:** "Chisos Mountains, elevation 5400 ft., Texas" [Big Bend National Park, Brewster County]

**Types:** Holotype in AMNH; figured by Howe (1975), Butts. N. Am.: pl. 47, figs. 24, ♂ D, 25 ♂ V.

## Family NYMPHALIDAE Rafinesque, 1815

Analyse Nat.: 127 (as "Nymphalia"). Type-genus: *Nymphalis* Kluk, 1780, Zwierz. Hist. Nat. Pocz. Gospod. 4: 86-89, no. 147. I.C.Z.N. *Opinion* 278 placed *Nymphalis* on the *Official List of Generic Names in Zoology* as name no. 702. Rafinesque did not include *Nymphalis* among the listed genera, but *Nymphalis* is unequivocally implied from the formation of the name (Code Article 11.7.1.1). I.C.Z.N. *Direction* 99 placed Nymphalidae Swainson, 1827, Phil. Mag. (2)1(3): 185, 187 on the *Official List of Family-group Names in Zoology* as name no. 232. Koçak (1981), Priamus 1(2): 93-96, demonstrated that Swainson's name was based on *Nymphalis* Latreille, 1804, Nouv. Dict. Hist. Nat. 24(tab): 184, 199, a homonym, and thus invalid (Code Article 39). The Rafinesque name has the advantage of priority, and *Nymphalis* Kluk, 1780, can be assumed to be the type-genus. An application must be made to the I.C.Z.N. to correct the *Official List* (Code Article 79.5). The arrangement of this family presented herein follows Wahlberg *et al.* (2003), Mol. Phylogen. Evol. 28(3): 473-484, (2005), Proc. R. Entomol. Soc. Lond. (B) 272(1572): 1577-1586, (2005), Biol. J. Linn. Soc. 86(2): 227-251, and Peña *et al.* (2006), Mol. Phylogen. Evol. 40(1): 29-49.

### Subfamily Libytheinae Boisduval, 1833

Nouv. Ann. Mus. Hist. Nat., Paris 2(2): 201 (as "Libythides"). Type-genus: *Libythea* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 284, no. 28.

### Genus *Libytheana* Michener, 1943

Am. Mus. Novit. (1232): 1, figs. 4-6 (genitalia of type-species). Type-species: *Libythea bachmanii* Kirtland, 1851, Family Visitor 2(76): 189, illustr. (= *Papilio carinenta* Cramer, 1777, Uitl. Kapellen 2(9): 18, pl. 108, figs. E, F; (16): 148 (index); subspecies), by original designation.

\*586. **Libytheana carinenta** (Cramer, 1777)

Uitl. Kapellen 2(9): 18, pl. 108, figs. E ♂ D, F ♂ V; (16): 148 (index).

**Original Combination:** *Pap[ilio]*. *Nymph[alis]*. *Phaler[ata]*. *Carinenta*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

a. **Libytheana carinenta mexicana** Michener, 1943

Am. Mus. Novit. (1232): 1-2.

**Original Combination:** *Libytheana carinenta mexicana*

**Type Locality:** "Jalapa, Mexico" [Veracruz]

**Types:** Holotype in AMNH.

b. **Libytheana carinenta streckeri** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 511.

**Original Combination:** *Libytheana carinenta streckeri*

Austin and J. Emmel adopted *Libythea bachmanii larvata* form *streckeri* W. D. Field, 1938, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= "streckeri" (W. D. Field, 1938)

J. Kans. Entomol. Soc. 11(4): 126.

**Original Combination:** [*Libythea bachmanii larvata*] [f.] *streckeri*

**Type Locality:** "Donna, Texas" [Hidalgo County]

**Types:** "Holotype" in USNM.

c. **Libytheana carinenta larvata** (Strecker, [1878])

Lepid. Rhop. Het. (14): 130.

**Original Combination:** *Libythea Larvata*

**Type Locality:** Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from the introductory text. [Comal and Bexar counties]



**Types:** A syntype in FMNH.

**d. *Libytheana carinenta bachmanii* (Kirtland, 1851)**

Family Visitor 2(76): 189, fig. ♂ D.

**Original Combination:** *Libythea bachmanii*

**Type Locality:** "Mahoning Co., Ohio"

**Types:** Type(s) probably lost, but possible syntypes may be in the Peale collection, ANSP.

The original description is frequently cited as Kirtland (1852), Am. J. Sci. Arts. (2)13(39): 336-337, fig., with a type locality of "Northern Ohio." See Goodwin (1959), Lepid. News 12(3/4): 121.

= ♀ "kirtlandi" (W. D. Field, 1938)

J. Kans. Entomol. Soc. 11(4): 124-125.

**Original Combination:** [*Libythea bachmanii bachmanii*] [f.] *kirtlandi*

**Type Locality:** "Lawrence, Kansas" [Douglas County]

**Types:** "Holotype" in USNM.

587. ***Libytheana motya* (Hübner, [1823])**

Samml. exot. Schmett. 2: pl. [137], figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Hecaterge Motya*

**Type Locality:** Not stated; this is a Cuban species.

**Types:** Location of type(s) not known, probably lost.

Recorded from Texas by J. Heitzman and R. Heitzman (1973), J. Res. Lepid. 10(4): 284-286.

Subfamily **Danainae** Boisduval, [1833]

Icon. Hist. Lépid. Europ. 1(9): 84 (as "Danaides"). Type-genus: *Danaïs* Latreille, 1807, Mag. f. Insektenk. 6: 291-292, no. 3. A junior objective synonym of *Danaus* Kluk, 1780, Zwierz. Hist. Nat. Pocz. Gospod. 4: 83. I.C.Z.N. *Direction 99* placed Danaidae on the *Official List of Family-Group Names in Zoology* as name no. 230; the same *Direction* placed Danaides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 268.

Tribe **Danaini** Boisduval, [1833]

Subtribe **Danaina** Boisduval, [1833]

Genus **Danaus** Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 83-86, no. 145. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by designation of Hemming (1933), Entomol. 66(10)[845]: 222. I.C.Z.N. *Opinion 278* placed this name on the *Official List of Generic Names in Zoology* as name no. 699.

Subgenus **Danaus** Kluk, 1780

= ♀ *Danaida* Latreille, 1804

Nouv. Dict. Hist. Nat. 24 (tab.): 185, no. 474, 199. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by monotypy. A junior objective synonym of *Danaus* Kluk, 1780.

= ♀ *Danaïs* Latreille, 1807

Mag. f. Insektenk. 6: 291-292, no. 3. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by monotypy. A junior objective synonym of *Danaus* Kluk, 1780.

= ♀ *Danaus* Latreille, 1809

Gen. Crust. Ins. 4: 201. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 28. Preoccupied by and a junior objective synonym of *Danaus* Kluk, 1780.

= ♀ *Festivus* Crotch, 1872

Cist. Entomol. 1(4): 62. Type-species: *Papilio plexippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 80, by original designation. A junior objective synonym of *Danaus* Kluk, 1780.

= *Diogas* d'Almeida, 1938

O Campo 9(102): 41. Type-species: *Papilio erippus* Cramer, 1775, Uitl. Kapellen 1(1): 4-5, pl. 3, figs. A, B, by original designation.

588. ***Danaus plexippus* (Linnaeus, 1758)**

**a. *Danaus plexippus plexippus* (Linnaeus, 1758)**

Syst. Nat. (ed. 10) 1: 471, no. 80; cited various works, including Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: 214, pl. 239, figs. 5, 6, and Catesby (1743), Nat. Hist. Carolina 2: 88, pl. 88.

**Original Combination:** *P[apilio]. D[anaus Festivus]. Plexippus*

**Type Locality:** "America septentrionali"; neotype from "Kendall, New York State." [Orleans County]

**Types:** Neotype in USNM, designated by I.C.Z.N. *Opinion 282*; figured by A. Clark (1941), Proc. U. S. Nat. Mus. 90(3118): pl. 71, fig. 1 ♂ D.

I.C.Z.N. *Opinion 282* placed this name on the *Official List of Specific Names in Zoology* as name no. 111.

= ♀ "mississippiensis" Meuschen, 1781

Mus. Gronovianum: verso, folio "Fff ff 2," under the heading "Index Insectorum/ Lepidoptera", no. 801.

**Original Combination:** [*Papilio*] *Mississippiensis*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

I.C.Z.N. *Opinion* 260 placed this work on the *Official Index of Rejected and Invalid Works in Zoological Nomenclature*.

- =  $\S$  *archippus* (Fabricius, 1793)

Entomol. Syst. 3(1): 49, no. 150.

**Original Combination:** *P[apilio]*. *P[apilio]*. *Archippus*

**Type Locality:** "America meridionali"

**Types:** Syntypes in ZMUC.

Preoccupied by *Papilio archippus* Cramer, 1775, Uitl. Kapellen 1(1): pl. 16, figs. A, B; (2): 24, but possibly just a misidentification.

- =  $\S$  *curassavicae* Bryk, 1937

Lepid. Cat. 78: 42; cited Fabricius (1807), Syst. Glossat.: 69, no. 1.

**Original Combination:** *Danaus* (*Anosia*) *curassavicae*

Proposed as a replacement name for *Papilio archippus* Fabricius, 1793, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

The reference to "Fabricius, 1807" is spurious, since that work is unpublished.

- =  $\S$  *curassavicae* Fabricius, 1938

*In:* Bryk, Syst. Glossat.: 69, no. 1; cited Fabricius (1793), Entomol. Syst. 3(1): 49, and J. E. Smith (1797), *in:* Smith and Abbot, Ins. Georgia 1: pl. 7, among others.

**Original Combination:** *E[uploea]*. *Curassavicae*

Proposed as a replacement name for *Papilio archippus* Fabricius, 1793, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

- =  $\S$  *asclepiadis* (Fabricius, 1938)

*In:* Bryk, Syst. Glossat.: 70, no. 2; cited Linnaeus (1758), Syst. Nat. (ed. 10) 1: 471, no. 80, among others.

**Original Combination:** *E[uploea]*. *Asclepiadis*

Proposed as a replacement name for *Papilio plexippus*, based on a foodplant name; a junior objective synonym of *Papilio plexippus*.

- =  $\S$  "fumosus" (Hulst, 1886)

Entomol. Am. 2(9): 182.

**Original Combination:** *Danaus archippus* var. *fumosus*

**Type Locality:** Not stated; "holotype" noted to be from "Long Island" by Ottolengui (1895), Entomol. News 6(7): 217. [New York]

**Types:** "Holotype" in USNM.

- =  $\S$  "pulchra" (Strecker, 1900)

Lepid. Rhop. Het. (suppl. 3): 21.

**Original Combination:** *Danaus plexippus* var. *pulchra*

**Type Locality:** "Colorado"

**Types:** "Holotype" in FMNH.

- =  $\S$  "americanus" Gunder, 1927

Entomol. News 38(5): 137-138, no. 10, pl. 2, fig. 10 ♀ D (holotype).

**Original Combination:** *Danaus menippe americanus* ♀ nov. tr. form

**Type Locality:** "Sunny Glen Ranch, Brewster Co., Texas"

**Types:** "Holotype" in AMNH.

- =  $\S$  "nivosus" Gunder, 1927

Entomol. News 38(5): 138, no. 11.

**Original Combination:** *Danaus menippe nivosus* ♂ nov. tr. form

**Type Locality:** "Jefferson Barracks, Missouri" [St. Louis County]

**Types:** "Holotype" in AMNH.

$\S$  "alba" Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Danaus plexippus* form *alba*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

#### Subgenus *Anosia* Hübner, 1816

Verz. bekannt. Schmett. (1): 15-16. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 113, no. 84.

- =  $\S$  *Tasitia* Moore, 1883

Proc. Zool. Soc. Lond. 1883(2): 235. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by original designation. A junior objective synonym of *Anosia* Hübner [1816].

- =  $\S$  *Danaomorpha* Kremky, 1925

Annls. Zool. Mus. Polon. Hist. Nat. 4(3): 164, 167. Type-species: *Papilio gilippus* Cramer, 1775, Uitl. Kapellen 1(3): 41, pl. 26, figs. E, F; (8): 153 (index), by monotypy. A junior objective synonym of *Anosia* Hübner [1816].

- =  $\S$  *Limnas* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio chrysippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 81, by monotypy. Suppressed by I.C.Z.N. *Opinion* 97; *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 78.

- = *Panlymnas* Bryk, 1937

Lepid. Cat. 78: 56. Type-species: *Papilio chrysippus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 471, no. 81, as a replacement name; proposed

to replace *Limnas* Hübner, [1806], preoccupied (Code Articles 60.3, 67.8).

\*589. **Danaus gilippus** (Cramer, 1775)

Uitl. Kapellen 1(3): 41, pl. 26, figs. E ♀ D, F ♀ V; (8): 153 (index).

**Original Combination:** *Pap[ilio]. Dan[aus] festiv[us]. Gilippus*

**Type Locality:** "Rio de Janeiro...Brazil" "Rio Janéiro...Côte du Brasil"

**Types:** Type(s) probably lost.

d'Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a "neotype," figured in (1939), Mems. Inst. Oswaldo Cruz 34: pl. 17, fig. 3. This designation is not in accordance with Code Articles 75.2 and 75.3.

= *†vinedoxici* (Hübner, 1816)

Verz. bekannt. Schmett. (1): 16, no. 87.

**Original Combination:** *Anosia Vinedoxici*

Proposed as a replacement name for *Papilio gilippus*, erroneously thought preoccupied; a junior objective synonym of *gillippus*.

= *vinctoxici* (Hübner, [1816])

Samml. exot. Schmett. 1: pl. [23], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Limnas ferruginea Vinctoxici*

**Type Locality:** Not stated; defined as "Brasilien" by Hemming (1937), Hübner 2: 97 (manuscript #21).

**Types:** Type(s) probably lost.

= *manuja* (Escholtz, 1821)

In: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 209, no. 13, pl. [7], figs. 13a ♂ D, 13b ♂ V.

**Original Combination:** *Idea Manuja*

**Type Locality:** "Aus Brasilien"

**Types:** Location of type(s) not known.

= *†vincetoxici* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 72, no. 11; cited Fabricius (1793), Entomol. Syst. 3(1): 52, no. 159, and J. E. Smith (1797), in: Smith and Abbot, Ins. Georgia 1: pl. 7.

**Original Combination:** *E[uploea]. Vincetoxici*

Proposed as a replacement name for *Papilio gilippus*, based on a foodplant name; preoccupied by *Limnas vincetoxici* (Hübner, [1816]), and a junior objective synonym of *gilippus*.

a. **Danaus gilippus berenice** (Cramer, 1779)

Uitl. Kapellen 3(18): 22, pl. 205, figs. E ♂ D, F ♂ V; (24): 174 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phaler[ata]. Berenice*

**Type Locality:** "Eiland Jamaika" "Jamaïque"

**Types:** Type(s) probably lost.

d'Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a "neotype," figured in (1939), Mems. Inst. Oswaldo Cruz 34: pl. 15, fig. 4. This designation is not in accordance with Code Articles 75.2 and 75.3.

b. **Danaus gilippus thersippus** (H. Bates, 1863)

Proc. Zool. Soc. Lond. 1863(2): 243, no. 10.

**Original Combination:** *Danaüs Thersippus*

**Type Locality:** "Isthmus of Panama, in the low forest-country situated about ten miles from the railway terminus on the Gulf of Mexico"; holotype labeled "Lion Hill, Panama."

**Types:** Holotype (#6453) in BMNH.

= *strigosus* (H. Bates, 1864)

Entomol. Mon. Mag. 1(2): 32-33, no. 14.

**Original Combination:** *Danaüs Strigosa*

**Type Locality:** "Guatemala...in the interior valleys and on the Pacific Coast"

**Types:** Syntypes (#6446-#6452) in BMNH.

= *esperanza* Hoffmann, 1924

Rev. Méx. Biol. 4(3): 69, fig. 1 ♂ D.

**Original Combination:** *Danaüs berenice* var. *Esperanza*

**Type Locality:** "las montañas del Estado de Veracruz, que se encuentra en alturas de 1,400-1,500 metros... (cerro de San Nicolás, cerca de Orizaba, Veracruz)"

**Types:** Holotype (#6,520) in AMNH.

This taxon seems to represent an individual form, but this is not expressly stated in the text.

= *†kerri* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(1): 3 (1925); 25(3): pl. 17, fig. 6 ♂ D (1926).

**Original Combination:** *Danaüs berenice* aberration *kerri*

**Type Locality:** "Blythe, California" [Riverside County]

**Types:** "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 17, fig. 6 ♂ D.

= *†gilippina* (Hoffmann, 1940)

An. Inst. Biol. Univ. Méx. 11(1): 277-278, fig. 3 ♂ D, 4 ♂ V (holotype).

**Original Combination:** *Anosia berenice* forma *gilippina*

**Type Locality:** "secas y calientes del Occidentale de México"

**Types:** "Syntypes" in AMNH.

\*590. **Danaus eresimus** (Cramer, 1777)

Uitl. Kapellen 2(13): 121-122, pl. 175, figs. G ♂ D, H ♂ V; (16): 148 (index).

**Original Combination:** *Pap[ilio]. Dan[aus] Festiv[us]. Eresimus*



**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

Calhoun (1996), Holarct. Lepid. 3(1): 7-18, suggested that subspecies of *D. eresimus* are undefinable in the United States.

= *‡*asclepidia (Fabricius, 1938)

*In:* Bryk, Syst. Glossat.: 72, no. 9; cited Cramer (1777), Uitl. Kapellen 2(13): 121-122, pl. 175, figs. G, H.

**Original Combination:** *E[uploea]. Asclepidea*

Proposed as a replacement name for *Papilio eresimus*, based on a foodplant name; a junior objective synonym of *eresimus*.

a. ***Danaus eresimus montezuma*** Talbot, 1943

Trans. R. Entomol. Soc. Lond. 93(1): 120.

**Original Combination:** [*Danaus eresimus*] *montezuma*

**Type Locality:** "Mexico: Misantla, Veracruz" [Misantla, Veracruz]

**Types:** Holotype in BMNH.

= *ares* (d'Almeida, 1944)

Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 46-48, pl. 3, fig. 2 ♂ D (holotype).

**Original Combination:** [*Anosia*] *eresimus ares*

**Type Locality:** "Alto Amazonas" [Loreto Region, Peru]

**Types:** Holotype in UFPC.

*‡*"nephele" W. Forbes, [1944]

J. N. Y. Entomol. Soc. 51(4): 299.

**Original Combination:** [*Danaus eresimus*] *nephele*

This name was mentioned in the text without a description; a *nomen nudum*.

b. ***Danaus eresimus tethys*** W. Forbes, [1944]

J. N. Y. Entomol. Soc. 51(4): 301-302.

**Original Combination:** *Danaus eresimus tethys*

**Type Locality:** "Fond Parisien, Haiti...alt. about 60 ft."

**Types:** Holotype in AMNH.

Subtribe ***Itunina*** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 311, 552, 556 (as "Itunidi"). Type-genus: *Ituna* E. Doubleday, [1847], *in:* Gen. diurn. Lepid. (1)(9): pl. 17, fig. 1.

Genus ***Lycorea*** E. Doubleday, [1847]

*In:* Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 105. Type-species: *Lycorea atergatis* E. Doubleday, [1847], *in:* Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 106 (= *Euiodes halia* Hübner, 1816, Verz. bekannt. Schmett. (1): 11, no. 31; subspecies), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 210, no. 650.

= *‡**Lycorella* Hemming, 1933

Entomol. 66(10)[845]: 222. Type-species: *Lycorea atergatis* E. Doubleday, [1847], *in:* Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1; (10): 106 (= *Euiodes halia* Hübner, 1816, Verz. bekannt. Schmett. (1): 11, no. 31; subspecies), as a replacement name. Proposed to replace *Lycorea* E. Doubleday, [1847], erroneously thought preoccupied; a junior objective synonym of *Lycorea*.

= *Ituna* E. Doubleday, [1847]

*In:* Gen. diurn. Lepid. (1)(9): pl. 17, fig. 1 [1847]; (12): 114. Type-species: *Ituna phenarete* E. Doubleday, [1847], *in:* Gen. diurn. Lepid. (1)(9): pl. 17, fig. 1 (= *Papilio ilione* Cramer, 1775, Uitl. Kapellen 1(3): 42, pl. 26, figs. G, H), by monotypy.

\*591. ***Lycorea halia*** (Hübner, 1816)

Verz. bekannt. Schmett. (1): 11, no. 31; cited *Papilio ceres* Cramer, 1776, Uitl. Kapellen 1(8): 141, pl. 90, fig. A; figured by Hübner [1825], Samml. exot. Schmett. 2: pl. [3].

**Original Combination:** *E[ueides]. Halia*

Proposed to replace *Papilio ceres* Cramer, 1776, with the same data (Code Article 60.3).

= *‡ceres* (Cramer, 1776)

Uitl. Kapellen 1(8): 141, pl. 90, fig. A ♂ D; (8): 152 (index).

**Original Combination:** *Pap[ilio]. Helicon[ius]. Ceres*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

Preoccupied by *Papilio ceres* Fabricius, 1775, Syst. Entomol.: 504, no. 257. d'Almeida (1944), Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 4(3): 62, designated a "neotype." This designation is not in accordance with Code Articles 75.2 and 75.3.

a. ***Lycorea halia demeter*** C. Felder & R. Felder, 1865

Reise Novara Zool. (2): 352, no. 497.

**Original Combination:** *Lycorea Demeter*

**Type Locality:** "Cuba"

**Types:** Holotype probably in BMNH.

b. ***Lycorea halia atergatis*** E. Doubleday, [1847]

*In:* Gen. diurn. Lepid. (1)(9): pl. 16, fig. 1 ♂ D; (10): 106, no. 4.

**Original Combination:** *Lycorea Atergatis*

**Type Locality:** "Venezuela"

**Types:** Syntype (#6809 ♂) in BMNH.

Tribe **Ithomiini** Godman & Salvin, 1879 (1878)

Biol. centr.-amer. Lepid. Rhop. 1(1): 6 (as "Ithomiina"). Type-genus: *Ithomia* Hübner, 1816, Verz. bekannt. Schmett. (1): 9. The name Ithomiini is junior to Mechanitini Bar, 1878, Ann. Soc. ent. Fr. (5)8(1): 12, 13, 24-25, however the use of Mechanitina over Ithomiini would upset current usage greatly. The ideal solution is to petition the Commission to suppress Mechanitini at any level where it competes directly with Ithomiini, leaving it available to represent a tribal or infra-tribal grouping. I treat these two names as if such an *Opinion* has been rendered.

Subtribe **Dircennina** d'Almeida, 1941

Pap. avulsos Dept. Zool. Sec. Agr. (São Paulo) 1(12): 79, 80 (as "Dircennini"). Type-genus: *Dircenna* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1)(9): pl. 17, fig. 2.

Genus **Dircenna** E. Doubleday, [1847]

In: Gen. diurn. Lepid. (1)(9): pl. 17, fig. 2. Type-species: *Dircenna iambe* E. Doubleday, [1847], in: Gen. diurn. Lepid. 1(9): pl. 17, fig. 2; (13): 121 (= *Ceratinia jemina* Geyer, 1837, in: Hübner, Zutr. Samml. exot. Schmett. 6: pl. [139], figs. 807-808; 6; synonym), by monotypy.

592. **Dircenna klugii** (Geyer, 1837)

In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [138], figs. 801 ♂ D, 802 ♂ V [1833]; [5], no. 401 (name) (1837).

**Original Combination:** *Ceratinia Klugii*

**Type Locality:** "Mexico"

**Types:** Location of type(s) not known, probably lost.

Subfamily **Limnitiidae** Behr, 1864

Proc. Calif. Acad. Sci. 3(2): 127 (as "Limnitiidae"). Type-genus: *Limnitis* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 281, no. 10. I.C.Z.N. *Opinion* 278 placed *Limnitis* on the *Official List of Generic Names in Zoology* as name no. 701.

Tribe **Limnitiini** Behr, 1864

Subtribe **Limnitiina** Behr, 1864

Genus **Limnitis** [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 281, no. 10. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by designation of Dalman (1816), K. svenska VetenskAkad. Handl. 37(1): 55. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 701. R. Chernock (1950), Am. Midl. Nat. 43(3): 513-569, united many genus-level taxa under *Limnitis*, some of which have since been elevated. The use of *Basilarchia* for Nearctic species is not warranted until a thorough analysis of all related taxa has been conducted.

= *‡Najas* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by monotypy. I.C.Z.N. *Opinion* 97 suppressed this publication. I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 80.

= *‡Callianira* Hübner, [1819]

Verz. bekannt. Schmett. (3): 38. Type-species: *Callianira ephestiaena* Hübner, [1819], Verz. bekannt. Schmett. (3): 38, no. 334 (= *Papilio ephestion* Stoll, 1790, Aanhangs. Werk Utit. Kapellen Pieter Cramer (2): 121, pl. 25, figs. 1A ♂ D, 1B ♂ V; a synonym of *Papilio astyanax*, Fabricius, 1775, Syst. Entomol.: 447, no. 20, which is a subspecies of *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4), by monotypy. Preoccupied by *Callianira* Péon & Lesueur, 1810, Ann. Mus. Hist. Nat., Paris 15(85): 65.

= *‡Nymphalis* Boisduval, [1828]

Europ. Lepid. Ind. Meth.: 14. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by monotypy. Preoccupied by *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86.

= *‡Nympha* Krause, 1839

In: Thon, Faun. Thüringen 4(4/5): 86. Type-species: *Papilio populi* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 111, by designation of Scudder (1872), Proc. Am. Acad. Arts Sci., Boston 10(2): 293, no. 755 bis. Preoccupied by *Nympha* Fitzinger, 1826, Nouv. Class. Rept. 29, and a junior objective synonym of *Limnitis*.

= *‡Nymphalis* (C. Felder, 1861)

Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 41, no. 97. Type-species: *Papilio astyanax* Fabricius, 1775, Syst. Entomol.: 447, no. 20 (= *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4; subspecies), by designation of Hemming (1934), Entomol. 67(2)[849]: 37. Preoccupied by *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86, and also a junior objective synonym of *Basilarchia* Scudder, 1872.

= *Basilarchia* Scudder, 1872

4th Ann. Rept. Peabody Acad. Sci. (1871): 29. Type-species: *Papilio astyanax* Fabricius, 1775, Syst. Entomol.: 447, no. 20 (= *Papilio arthemis* Drury, 1773, Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3, 4; subspecies), by original designation.

- = *Ladoga* Moore, 1898  
Lepid. Ind. 3(32): 146; (33): 174. Type-species: *Papilio camilla* Linnaeus, 1764, Mus. Lud. Ulr.: 304, no. 122, by original designation.
- = *Azuritis* Boudinot, 1986  
Nouv. Rev. Entomol. (n.s.) 2(4): 405. Type-species: *Limenitis reducta* Staudinger, 1901, Cat. Lepid. Palae. (3rd ed.): 22, no. 135a, by original designation. Gorbunov (2001), Butts. Russia Class.: 159, treated this taxon as a subgenus.
593. ***Limenitis arthemis* (Drury, 1773)**
- a. ***Limenitis arthemis rubrofasciata*** (W. Barnes & McDunnough, 1916)  
Can. Entomol. 98(7): 221-222.  
**Original Combination:** *Basilarchia arthemis rubrofasciata*  
**Type Locality:** "Saskatchewan...Cartwright, Man....Calgary, Alta."  
**Types:** Syntypes in USNM; a "paratype" figured by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): pl. 9, fig. 7 ♂ D.
- b. ***Limenitis arthemis arthemis* (Drury, 1773)**  
Ill. Nat. Hist. 2: 17, index, pl. 10, figs. 3 ♂ D, 4 ♂ V.  
**Original Combination:** *Pap[ilio]*. *Nym[phalis]*. *Phal[eratus]*. *Arthemis*  
**Type Locality:** "New York"; stated to be "New York, probably Catskill Mountains" by Klots (1951), Field Guide Butts. N. Am.: 116.  
**Types:** Type(s) probably lost.
- = *lamina* (Fabricius, 1793)  
Entomol. Syst. 3(1): 118, no. 361; cited Jones' Icones 5: pl. 32, fig. 1.  
**Original Combination:** *P[apilio]*. *N[ymphales]*. *Lamina*  
**Type locality:** "Indiis Dom. Drury"  
**Types:** Type(s) probably lost.
- = *proserpina* W. H. Edwards, 1865  
Proc. Entomol. Soc. Philad. 5[1]: 148; figured by W. H. Edwards (1867), Trans. Am. Entomol. Soc. 1(3): pl. 5, (1869), Butts. N. Am. [1](4): pl. *Limenitis* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and (1879), 2(8): pl. *Limenitis* 1, figs. 5 ♂ D, 6 ♂ D.  
**Original Combination:** *Limenitis Proserpina*  
**Type Locality:** "Catskill Mountains"; defined as "Hunter, Greene Co., New York" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 358.  
**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 360, fig. 12 ♂ D&V.
- = ⚡*rufescens* Cockerell, 1889  
Entomol. 22(308): 4; cited unspecified Maynard reference, probably (1886), Butts. N. England (ed. 1): pl. 1, fig. 11 ♂ D&V.  
**Original Combination:** *L[imenitis]*. *artemis* [form]. *rufescens*  
**Type Locality:** "Southern States"  
**Types:** "Holotype" probably in MCZ, if it existed.
- = ⚡*cerulea* Ehrmann, 1900  
Can. Entomol. 32(11): 348.  
**Original Combination:** *Limenitis ursula*, Var. *cerulea* ♀, nov. var.  
**Type Locality:** "Charleroi, Penn'a" [Washington County, Pennsylvania]  
**Types:** "Syntypes" in CMNH.
- = ⚡*albofasciata* Newcomb, 1907  
Psyche 14(5): 90-91, pl. 2, figs. 7 ♂ D, 8 ♀ D.  
**Original Combination:** *Limenitis ursula* var. *albofasciata*  
**Type Locality:** "Mass., eastern N. Y., and vicinity of Jersey City"; lectotype from "Fort Lee, Hudson Co., N. Y." [New York]  
**Types:** "Lectotype" in AMNH, designated by Gunder (1934), Can. Entomol. 66(2): 41.
- = ⚡*benjamini* Nakahara, 1924  
Bull. Brooklyn Entomol. Soc. 19(5): 171.  
**Original Combination:** [*Basilarchia arthemis albofasciata*] *Aberr. benjamini*  
**Type Locality:** "Massachusetts"  
**Types:** "Holotype" in USNM.
- = "virithemis" W. D. Field, 1936  
J. Entomol. & Zool. 28(2): 24.  
**Original Combination:** *Basilarchia Arthemis* f. *virithemis*  
**Type Locality:** "Germania, Penn." [Potter County, Pennsylvania]  
**Types:** "Holotype" in USNM.
- c. ***Limenitis arthemis astyanax* (Fabricius, 1775)**  
Syst. Entomol.: 447, no. 20.  
**Original Combination:** *P[apilio]*. *E[ques]*. *T[rojanus]*. *Astyanax*  
**Type Locality:** "America. Mus. D. Hunter"  
**Types:** Syntypes in HMUG.
- = *ephestion* (Stoll, 1790)  
Aanhangs. Werk Uitl. Kapellen Pieter Cramer (2): 121, pl. 25, figs. 1A ♂ D, 1B ♂ V.  
**Original Combination:** *Pap[ilio]*. *Eq[uietes]*. *Troës Ephestion*  
**Type Locality:** "goudkust van Afrika" "côte d'or d'Afrique" in error.



**Types:** Type(s) probably lost.

= *†ephestiaena* (Hübner, [1819])

Verz. bekannt. Schmett. (3): 38, no. 334; cited *Papilio ephestion* Stoll 1790, Aanhangs. Werkes Utd. Kapellen Pieter Cramer (2): pl. 25, figs. 1A, 1B.

**Original Combination:** *Callianira Ephestiaena*

Proposed to replace *Papilio ephestion* Stoll, 1790, erroneously thought preoccupied; a junior objective synonym of *Papilio ephestion*.

= *ursula* (Fabricius, 1793)

Entomol. Syst. 3(1): 82, no. 257.

**Original combination:** *P[apilio]. N[ymphalis] Ursula*

**Type locality:** "America Mus. Dr. Hunter"

**Types:** Location of type(s) not known.

= *†viridis* Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 144, no. 289a.

**Original Combination:** [*Limnitis Ephestion*] var. a *Viridis*

**Type Locality:** Not stated.

**Types:** Location of "type(s)" not known, may be in FMNH.

= *†atlantis* (Nakahara, 1923)

Entomol. News 34(1): 10.

**Original Combination:** *Basilarchia astyanax* ab. *atlantis*

**Type Locality:** "Elmhurst, Long Island" [Queens County, New York]

**Types:** "Holotype" in USNM.

= *†inornata* (Nakahara, 1924)

Bull. Brooklyn Entomol. Soc. 19(5): 174.

**Original Combination:** [*Basilarchia arthemis astyanax*] form *inornata*

**Type Locality:** "Glendale, L. I., N. Y." [Queens County, New York]

**Types:** "Holotype" in USNM.

= *†purpuratus* (Gunder, 1934)

Can. Entomol. 66(2): 43-44, no. 9.

**Original Combination:** *Basilarchia astyanax* form *purpuratus*

**Type Locality:** "Scranton, Penna." [Lackawanna County, Pennsylvania]

**Types:** "Holotype" in AMNH.

= *†tildeni* (W. D. Field, 1934)

Can. Entomol. 66(11): 255-256.

**Original Combination:** *Basilarchia astyanax* tr. f. *tildeni*

**Type Locality:** "a small wooded area about two miles from Lawrence, Kansas, up the Kaw river" [Douglas County]

**Types:** "Holotype" in USNM.

d. *Limnitis arthemis arizonensis* W. H. Edwards, 1882

*Papilio* 2(2): 22.

**Original Combination:** *Limnitis Ursula* var. *Arizonensis*

**Type Locality:** "about Tucson...southern Arizona" [Pima County]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 361-362, fig. 13 ♂ D&V.

= *†doudoroffi* (Gunder, 1934)

Can. Entomol. 66(2): 44, no. 12.

**Original Combination:** *Basilarchia astyanax arizonensis* tr. f. *doudoroffi*

**Type Locality:** "Tonto Creek near Payson, Gila County, Arizona"

**Types:** "Holotype" in AMNH.

E. Perkins and Garth (1973), J. Res. Lepid. 11(4): 229-234, demonstrated that this taxon is a hybrid between *L. a. arizonensis* and *L. weidemeyerii angustifascia* (see below); this was corroborated by R. Holland (1981), J. Res. Lepid. 19(2): 92-94, fig. 4 ♂ D&V.

594. *Limnitis weidemeyerii* W. H. Edwards, 1861

While some recent authors have treated *L. weidemeyerii* as a subspecies of *L. lorquini* (e.g., Porter (1990), Syst. Zool. 39(2): 131-148), they are herein maintained as species-level taxa following Boyd *et al.* (2000), Holarct. Lepid. 6(2): 37-74.

a. *Limnitis weidemeyerii weidemeyerii* W. H. Edwards, 1861

Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 162, no. 4; figured by W. H. Edwards (1869), Butts. N. Am. [1](4): pl. *Limnitis* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 38, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Limnitis Weidemeyerii*

**Type Locality:** "Rocky Mountains"; neotype from "Lakewood, Jefferson Co., Colorado."

**Types:** Neotype in CMNH, designated by S. Perkins and E. Perkins (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 370-371, fig. 16 ♂ D&V.

= *†nigerrima* (Cockerell, 1927)

Bull. South. Calif. Acad. Sci. 26(1): 5.

**Original Combination:** [*Basilarchia weidemeyerii*] ab. *nigerrima*

**Type Locality:** "Boulder, Colorado" [Boulder County]

**Types:** "Holotype" in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 32, 33.

b. *Limnitis weidemeyerii oberfoelli* F. Brown, 1960

Am. Mus. Novit. (2018): 2-6, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

- Original Combination:** *Limenitis weidemeyerii oberfoelli*  
**Type Locality:** "Badlands, Slope County, North Dakota"  
**Types:** Holotype in AMNH.
- c. ***Limenitis weidemeyerii latifascia*** S. Perkins & E. Perkins, 1967  
 J. Lepid. Soc. 21(4): 221, pl. 1, fig. 17 ♂ D (holotype); pl. 2, fig. 18 ♂ V (holotype), pl. 3, fig. 19 ♀ D, pl. 4, fig. 20 ♀ V.  
**Original Combination:** *Limenitis weidemeyerii latifascia*  
**Type Locality:** "Idaho: 10 mi S. Pocatello, Mink Creek, Bannock Range, Bannock Co."  
**Types:** Holotype in AMNH.
- d. ***Limenitis weidemeyerii nevadae*** (W. Barnes & Benjamin, 1924)  
 Contr. Nat. Hist. Lepid. N. Am. 5(3): 99.  
**Original Combination:** *Basilarchia weidemeyerii nevadae*  
**Type Locality:** "Clark Co., Nev."; determined to be "Spring Mtn. Range, Clark Co., Nevada" by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 220-221.  
**Types:** Holotype in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 38-39.
- e. ***Limenitis weidemeyerii angustifascia*** (W. Barnes & McDunnough, 1912)  
 Can. Entomol. 44(5): 163.  
**Original Combination:** *Basilarchia weidemeyerii* [race] *angustifascia*  
**Type Locality:** "White Mts., Arizona"; determined to be "White Mtns., SE McNary, Apache Co., Arizona" by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 220.  
**Types:** Holotype in USNM; figured by S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, pl. 7, figs. 36 ♂ D, 37 ♂ V.  
 = ♀ "sinefascia" W. H. Edwards, 1882 (emended)  
 Papilio 2(2): 22.  
**Original Combination:** *Limenitis weidemeyerii* aber. *sinefascia*  
**Type Locality:** "near Tucson"; defined as "near Prescott, Arizona" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 371-372. [Yavapai County]  
**Types:** "Holotype" in CMNH, figured by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 372, fig. 17 ♀ D&V; and S. Perkins and E. Perkins (1967), J. Lepid. Soc. 21(4): 226, page number pl. 7, figs. 34 ♀ D, 35 ♀ V.
- f. ***Limenitis weidemeyerii siennafascia*** Austin & Mullins, 1984  
 J. Res. Lepid. 22(4): 225, 227, fig. 1a top left ♂ D (holotype), top right ♀ D, 1b top left ♂ V (holotype), top right ♀ V.  
**Original Combination:** *Limenitis weidemeyerii siennafascia*  
**Type Locality:** "Arizona: Cochise County; Chiricahua Mountains, near Barfoot Park, 8400', (T17S R30E S33)"  
**Types:** Holotype in MGCL.
595. ***Limenitis lorquini*** Boisduval, 1852
- a. ***Limenitis lorquini powelli*** Austin & J. Emmel, 1998  
 Syst. W. N. Am. Butts. (42): 513.  
**Original Combination:** *Limenitis lorquini powelli*  
 Austin and Emmel adopted *Basilarchia lorquini* tr. f. *powelli* W. D. Field, 1936, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
 = ♀ "powelli" W. D. Field, 1936  
 J. Entomol. & Zool. 28(2): 24.  
**Original Combination:** *Basilarchia lorquini* tr. f. *powelli*  
**Type Locality:** "San Bernardino Co., Calif." [California]  
**Types:** "Holotype" in USNM.
- b. ***Limenitis lorquini pallidafacies*** Austin & J. Emmel, 1998  
 Syst. W. N. Am. Butts. (42): 514, figs. 59 ♂ D, 60 ♂ V (holotype); 61 ♀ D, 62 ♀ V.  
**Original Combination:** *Limenitis lorquini pallidafacies*  
**Type Locality:** "Nevada: Esmeralda County; White Mountains, Trail Canyon, 2620 m, T1S R33E S10 on the USGS Benton, Nev.-Calif. 15' quadrangle"  
**Types:** Holotype in LACM.  
 = ♀ "comstocki" (Gunder, 1925)  
 Entomol. News 36(1): 5, no. 8, pl. 1, fig. S ♂ D ("holotype").  
**Original Combination:** *Basilarchia lorquini* ab. ♂ *comstocki*  
**Type Locality:** "Bishop, Inyo County, California"  
**Types:** "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 45, fig. 7 ♂ D; pl. 46, fig. 6 ♂ V.
- c. ***Limenitis lorquini lorquini*** Boisduval, 1852  
 Annls. Soc. Entomol. Fr. (2)10(2): 301-302, no. 42.  
**Original Combination:** *Limenitis Lorquini*  
**Type Locality:** "Californie" implied from the title of the paper; restricted to "Hwy. 70 at Soda Creek, E. Branch North Fork Feather River Canyon, 2500' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 16, figs. 87 ♂ D, 88 ♂ V.  
 = *eavesii* Hy. Edwards, 1877  
 Proc. Calif. Acad. Sci. [1]7(12): 172.  
**Original Combination:** *Limenitis Lorquini* Var. *Eavesii*  
**Type Locality:** "from Vancouver Island...near Virginia City, Nevada"; lectotype from "Virginia City, Storey County, Nevada."  
**Types:** Lectotype in AMNH, designated by Austin (1998), Syst. W. N. Am. Butts. (50): 636.  
 = ♀ "gunderi" W. D. Field, 1936  
 J. Entomol. & Zool. 28(2): 24.

**Original Combination:** *Basilarchia lorquini* tr. f. *gunderi*

**Type Locality:** "El Dorado Co., Calif." [California]

**Types:** "Holotype" in USNM.

= ♀ "fridayi" Gunder, 1932

Can. Entomol. 64(12): 284.

**Original Combination:** *Basilarchia lorquini* form *fridayi*

**Type Locality:** "Leevining Creek, near Mono Lake, Mono County, Calif." [California]

**Types:** Holotype in AMNH.

Gunder (1934), Can. Entomol. 66(2): 45, determined that this is a hybrid between *L. weidemeyerii* and *L. lorquini*; also see Boyd *et al.* (2000), Holarct. Lepid. 6(2): 37-74.

d. ***Limnitis lorquini ilgae*** C. Guppy, 2001

Butts. B. C.: 317, 319, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Limnitis lorquini ilgae*

**Type Locality:** "BC, Bamberton, Jones Creek Road to Oliphant Lake" [British Columbia]

**Types:** Holotype in BCPM.

= ♀ "maynardi" (W. D. Field, 1936)

J. Entomol. & Zool. 28(2): 24-25.

**Original Combination:** *Basilarchia lorquini* race *burrisoni* tr. f. *maynardi*

**Type Locality:** "Vancouver, B. C., Canada" [British Columbia]

**Types:** "Holotype" in USNM.

e. ***Limnitis lorquini burrisoni*** Maynard, 1891

Manual N. Am. Butts.: 102, no. 143a.

**Original Combination:** *Limnitis lorquini burrisoni*

**Type Locality:** "British Columbia...Landsdowne, westward to Vancouvers Island"; defined as "Landsdowne Creek near Fairmont Hot Springs" by Layberry *et al.* (1998), Butts. Can.: 210-211.

**Types:** Location of type(s) not known, possibly in MCZ.

Layberry *et al.* (1998), Butts. Can.: 210-211, and C. Guppy and J. Shepard (2001), Butts. B. C.: 317-319, considered the name *burrisoni* unavailable because they thought that it represents a hybrid between *L. lorquini* and *L. arthemis rubrofasciata*. If it is demonstrated that the type is a hybrid, the name *burrisonii* is still available (Code Articles 17.2 and 23.8).

= *itelkae* C. Guppy, 2001

Butts. B. C.: 317, 319, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Limnitis lorquini itelkae*

**Type Locality:** "BC, Keremeos, 1 mile N of Hwy 3A on Mt. Apex Rd." [British Columbia]

**Types:** Holotype in BCPM.

596. ***Limnitis archippus*** (Cramer, 1775)

a. ***Limnitis archippus floridensis*** Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 143, no. 287a.

**Original Combination:** [*Limnitis Misippus*] var. a. *Floridensis*

**Type Locality:** "Florida and other parts of the extreme south" "Florida, Southern Ala., Miss., La."; defined as "Apalachicola, Florida" by Strecker (1881), Can. Entomol. 13(2): 29.

**Types:** Syntypes may be in FMNH.

= *eros* W. H. Edwards, 1880

Can. Entomol. 12(12): 246-247; figured by W. H. Edwards (1883), Butts. N. Am. 2(11): pl. *Limnitis* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Limnitis Eros*

**Type Locality:** "Indian River"; defined as "vic. Georgiana, Merritt I. Indian River, Brevard Co., Florida" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 362.

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 364, fig. 14 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 73, fig. 1 ♂ D (as *floridensis*).

= ♀ "nigra" Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 143, no. 287b.

**Original Combination:** [*Limnitis Misippus*] ab. b. ♂ *Nig[ra]*.

**Type Locality:** "Florida"

**Types:** "Holotype" in FMNH.

= ♀ "nigricans" Strecker, 1900

Lepid. Rhop. Het. (suppl. 3): 24.

**Original Combination:** *Limnitis archippus* ab. *nigricans*

**Type Locality:** "Florida"

**Types:** "Holotype" in FMNH.

= ♀ "halli" (F. Watson & W. Comstock, 1920)

Bull. Am. Mus. Nat. Hist. 42(10): 449.

**Original Combination:** *Basilarchia archippus* ab. *halli*

**Type Locality:** "Florida"

**Types:** "Holotype" in AMNH.

b. ***Limnitis archippus watsoni*** (dos Passos, 1938)

Can. Entomol. 70(12): 243, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Basilarchia archippus watsoni*



**Type Locality:** "Alexandria, La." [Rapides Parish, Louisiana]

**Types:** Holotype in AMNH.

c. ***Limenitis archippus archippus*** (Cramer, 1775)

Uitd. Kapellen 1(1): pl. 16, figs. A ♂ D, B ♂ V; (2): 24; (8): 151.

**Original Combination:** *Pap[ilio]*, *Dan[aus]* *Festiv[us]*, *Archippus*

**Types:** "eiland Jamaica in Noord-Amerika" "Jamaïque dans l'Amerique Septentrionale"; suggested to be "New York" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 178.

**Types:** Type(s) probably lost.

= *disippe* (Godart, [1824])

Ency. méth. 9(Ins.) (2): 393, no. 152.

**Original Combination:** *Nymphalis Disippe*

**Type Locality:** "Guyane" in error.

**Types:** Syntypes may be in USNM or MNHP.

This name was spelled "dissipus" by Boisduval and Le Conte [1837], Hist. Lepid. Amér. sept. (23): 204, representing either an incorrect subsequent spelling or an unjustified emendation.

= *†pseudodorippus* Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 143, no. 287c; cited Mead (1872), Can. Entomol. 4(11): 216.

**Original Combination:** [*Limenitis Misippus*] ab. c. ♀ *Pseudodorippus*

**Type Locality:** "Catskill Mts., New York...near Holyoke, Mass."

**Types:** "Syntypes" in FMNH and CMNH; "type" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 30 ♀ D.

= *†rubidus* Strecker, 1878

Butts. & Moths N. Am., Comp. Syn. Cat.: 144, no. 289b; cited Mead (1872), Can. Entomol. 4(11): 217.

**Original Combination:** [*Limenitis Ephestion*] ab. b. *Rubidus*

**Type Locality:** Not stated; possible "holotype" from "Berks Co., Penn." [Pennsylvania]

**Types:** Possible "holotype" in FMNH.

Gunder (1934), Can. Entomol. 66(2): 46, noted that although this taxon was described through indication, there is a "type" from "Berks Co., Penn", in FMNH.

= *†arthechippus* Scudder, 1888

Butts. E. U. S. & Can. 1(2): 296-297.

**Original Combination:** *B[asilarchia] arthechippus* (*arthemis-archippus*)

**Type Locality:** "Chateauguay Basin" [Quebec]

**Types:** "Holotype" (#29306) in MCZ.

= *†lathanis* (Cook & F. Watson, 1909)

Can. Entomol. 41(3): 77, pl. 5, figs. 1 ♂ D, 2 ♀ D (holotype).

**Original Combination:** *Basilarchia archippus* new variety *lathanis*

**Type Locality:** "Albany, N. Y." [Albany County, New York]

**Types:** "Holotype" in AMNH.

The text clearly indicates that this taxon was described as an individual variant.

= *†advena* Ellsworth, 1918

Lepidopterist 2(3): 22.

**Original Combination:** *Limenitis archippus* v. *advena*

**Type Locality:** "Johnson City, N. Y." [Broom County, New York]

**Types:** "Syntypes" in USNM.

The text clearly indicates that this taxon was described as an individual variant.

= *†cayuga* (Nakahara, 1923)

Entomol. News 34(1): 10.

**Original Combination:** *Basilarchia missippus* ab. *cayuga*

**Type Locality:** "Ithaca, New York" [Tompkins County]

**Types:** "Holotype" in USNM.

= *†nivosus* (Gunder, 1929)

Bull. Brooklyn Entomol. Soc. 24(5): 325, pl. 30, fig. 1 ♂ D&V ("holotype").

**Original Combination:** *Basilarchia archippus* tr. f. *nivosus*

**Type Locality:** "Mystic, Conn." [New London County, Connecticut]

**Types:** "Holotype" in AMNH.

= *†rubrofasechippus* Gunder, 1934

Can. Entomol. 66(2): 47-48, no. 22.

**Original Combination:** *Basilarchia archippus* hyb. *rubrofasechippus*

**Type Locality:** "Beulah, Manitoba, Canada"

**Types:** "Holotype" in AMNH.

= *†weidechippus* Cross, 1936

Hobbies 41(5): 112.

**Original Combination:** *Basilarchia* hyb. *weidechippus*

**Type Locality:** Not stated, but received from Schryver, so possibly "Platte River, near Denver." [Jefferson County]

**Types:** "Holotype" in DNH; figured by Cross (1937), Proc. Colo. Mus. Nat. Hist. 16(1): 17 ♂ D&V.

d. ***Limenitis archippus idaho*** Austin, 1998

Syst. W. N. Am. Butts. (63): 754, figs. 5 top row left ♂ D, 6 top row left ♂ V (holotype), 5 top row right ♂ D, 6 top row right ♂

V, 5 bottom row left ♀ D, 6 bottom row left ♀ V, 5 bottom row right ♀ D, 6 bottom row right ♀ V.

**Original Combination:** *Limenitis archippus idaho*

**Type Locality:** "Nevada: Elko County; Little Salmon River (= Salmon Falls Creek) Valley, U.S. route 93, 3.1 miles south of Jackpot, 1650 m, T47N R64E S23"

**Types:** Holotype in MGCL.

e. ***Limenitis archippus lahontani*** Herlan, 1971

J. Res. Lepid. 9(4): 217-218, fig. 2, top left ♂ D (holotype).

**Original Combination:** *Limenitis archippus lahontani*

**Type Locality:** "Nevada, Lyon Co., Fernley"

**Types:** Holotype in LACM.

f. ***Limenitis archippus obsoleta*** W. H. Edwards, 1882

Papilio 2(2): 22.

**Original Combination:** *Limenitis Eros* var. *obsoleta*

**Type Locality:** "southern Arizona"; suggested to be "at or south of Tucson" by Austin (1998), Syst. W. N. Am. Butts. (63): 752. [Pima County]

**Types:** Type(s) lost.

= *hulstii* W. H. Edwards, 1882

Papilio 2(3): 45, 46-47, no. 2.

**Original Combination:** *Limenitis Hulstii*

**Type Locality:** "Utah"; suggested to be "St. George region, in a very broad sense" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 366. [Washington County]

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 73, fig. 1 ♂ D, and F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 367, fig. 15 ♂ D&V.

g. ***Limenitis archippus hoffmanni*** R. Chermock, 1947

Am. Mus. Novit. (1365): 1-2.

**Original Combination:** *Limenitis archippus hoffmanni*

**Type Locality:** "Misantla, Vera Cruz, Mexico" [Veracruz]

**Types:** Holotype in AMNH.

Recorded from Texas by Bordelon and Knudson (2000), News Lepid. Soc. 42(1): 7, pl. 1 fig. 3.

Genus **Adelpha** Hübner, [1819]

Verz. bekannt. Schmett. (3): 42. Type-species: *Papilio mesentina* Cramer, 1777, Uitl. Kapellen 2(14): 102, pl. 162, figs. B, C; (16): 149 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 102, no. 20.

= *Heterochroa* Boisduval, 1836

Spec. gén. Lépid. 1: pl. 8 [=4B], fig. 4. Type-species: *Heterochroa serpa* Boisduval, 1836, Spec. gén. Lépid. 1: pl. 8 [=4B], fig. 4, by monotypy.

597. ***Adelpha fessonia*** (Hewitson, 1847)

a. ***Adelpha fessonia fessonia*** (Hewitson, 1847)

Ann. Mag. Nat. Hist. [1]20(133): 260-261, pl. 20, fig. 6 ♀ D.

**Original Combination:** *Heterochroa Fessonia*

**Type Locality:** "Honduras"

**Types:** Syntype (#Rh9817) in BMNH.

598. ***Adelpha basiloides*** (H. Bates, 1865)

J. Entomol. 2(12): 332, note.

**Original Combination:** *Heterochroa basiloides*

**Type Locality:** "Mexico"

**Types:** Syntype (#Rh9837) in BMNH.

= *lydia* (Butler, 1865)

Ann. Mag. Nat. Hist. (3)16(96): 398-399, no. 4.

**Original Combination:** *Heterochroa Lydia*

**Type Locality:** "Honduras"

**Types:** Syntype in BMNH.

= *lemnia* (C. Felder & R. Felder, 1867)

Reise Novara Zool. (3): 417, no. 647.

**Original Combination:** *Heterochroa Lemnia*

**Type Locality:** "Mexico"

**Types:** Syntype in BMNH; figured by Willmott (2003), Gen. Adelpha: 235, pl. 5, figs. 54a ♂ D, 54b ♂ V.

= *lativittata* Staudinger, 1886

In: Staudinger and Schatz, Exot. Schmett. 1(13): 142.

**Original Combination:** [*Adelpha Basiloides*] var. *Latevittata*

**Type Locality:** "Venezuela (Pto. Cabello)"

**Types:** Syntype in ZMHB.

= *caelia* Fruhstorfer, 1915

In: Seitz, Grossschmett. Erde 5 (237): 524.

**Original Combination:** [*Adelpha basiloides*] *caelia*

**Type Locality:** "Colombien"

- Types:** Syntype (#15-108) in BMNH.
599. **Adelpha eulalia** (E. Doubleday, [1848])  
*In:* Gen. diurn. Lepid. 1: viii, pl. 36, fig. 1 ♀ [1848]; 2(34): 278, no. 12, Westwood (1850).  
**Original Combination:** *Limenitis Eulalia*  
**Type Locality:** "Venezuela" in error; syntype from "Méxique."  
**Types:** Syntype (1927-3) in BMNH; this specimen may have been designated lectotype by Carpenter and Hobby (1944), Trans. R. Entomol. Soc. Lond. 94(2): 316.  
 A. Warren (2005), Butts. Ore.: 272, commented on the separation of *A. eulalia* and *A. californica* from *A. bredowii* Geyer, 1837, *in:* Hübner, Zutr. z. Samml. exot. Schmett. 5: pl. [142], figs. 825 ♂ D, 826 ♂ V; 10, no. 413. *Adelpha bredowii* does not occur in the United States.  
 = *guatemalensis* (Carpenter & Hobby, 1944)  
 Trans. R. Entomol. Soc. Lond. 94(2): 318-319, no. 4, fig. 2 H ♂ genitalia, pl. 1, figs. 7 ♂ D (holotype), 8 ♂ D, 9 ♀ D, pl. 2, fig. 12 ♂ V.  
**Original Combination:** *Limenitis bredowii guatemalensis*  
**Type Locality:** "San Gerónimo, Guatemala"  
**Types:** Holotype in BMNH.  
 Willmott (2003), Gen. Adelpha: 52, determined this synonymy.
600. **Adelpha californica** (Butler, 1865)  
 Proc. Zool. Soc. Lond. 1865(2): 485-486, no. 6.  
**Original Combination:** *Heterochroa californica*  
**Type Locality:** "California"  
**Types:** Syntype (#Rh9766) in BMNH.

#### Subfamily **Heliconiinae** Swainson, 1822

Zool. Illustr. [1]2(18): pl. 92, unnumbered text (as "Heliconiae"). Type-genus: *Heliconius* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 82-84, no. 143. I.C.Z.N. *Opinion 382* placed *Heliconius* on the *Official List of Generic Names in Zoology* as name no. 923. I.C.Z.N. *Direction 54* placed Heliconiidae Swainson, 1827, Phil. Mag. (2)1(3): 184, 185, 187 (as "Heliconi" "Heliconidae"); 185, 187, no. 5 (as "Heliconidae"), on the *Official List of Family-Group Names in Zoology* as name no. 117; the same *Direction* placed Heliconidae, an invalid original spelling of Heliconiidae, on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 103. Koçak (1981), Priamus 1(2): 93-96, determined that Swainson's family-group name was based on *Heliconius* Latreille 1804, a homonym of *Heliconius* Kluk, 1802. Thus, the type genus is invalid because it is a junior homonym (Code Article 39); an application must be made to the I.C.Z.N. to correct the *Official List* (Code Article 79.5).

#### Tribe **Heliconiini** Swainson, 1822

#### Subtribe **Heliconiina** Swainson, 1822

#### Genus **Dione** Hübner, [1819]

Verz. bekannt. Schmett. (2): 31. Type-species: *Papilio junio* Cramer, 1779, Utitl. Kapellen 3(18): 38, pl. 215, figs. B, C; (24): 175 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 157, no. 343.

- \*601. **Dione moneta** Hübner, [1825]  
 Samml. exot. Schmett. 2: 20, pl. [20], figs. 1 ♂ D, 2 ♂ V.  
**Original Combination:** *Dione Moneta*  
**Type Locality:** Not stated; suggested to be "South Brazil" by A. Hall (1921), Entomol. 54(7) [703]: 276.  
**Types:** Location of type(s) not known, probably lost.
- a. **Dione moneta poeyi** Butler, 1873  
 Ann. Mag. Nat. Hist. (4)12: 227, no. 28.  
**Original Combination:** *D[ione]. Poeyi*  
**Type Locality:** Not stated. N. Riley (1926), Entomol. 59(9) [760]: 244, determined that the description of this taxon was based on figures and text in E. Doubleday [1847], Gen. diurn. Lepid. (1) (13): pl. 22, fig. 1; lectotype from "Oaxaca. Mexico."  
**Types:** Lectotype in BMNH, designated by Lamas (1998), Revta. peruana Entomol. 40: 113.  
 = *butleri* (Stichel, [1908])  
*In:* Wytsman, Gen. Ins. 63: 19, no. 3b (nota 1); figured by Seitz (1912), Grossschmett. Erde 5(152): pl. 84e, figs. [1] ♂ V, [2] ♂ D.  
**Original Combination:** *Dione moneta butleri*  
**Type Locality:** "Colombia, Rio Magdal. sup....Ecuador, Balzapamba"  
**Types:** Syntypes (#549, 620, 623) in BMNH; one of these figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 9 ♂ D&V.

#### Genus **Agraulis** Boisduval & Le Conte, [1835]

Hist. Lépid. Amér. sept. 1(16): 142-145. Type-species: *Papilio vanillae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 482, no. 144, by monotypy.

- \*602. **Agraulis vanillae** (Linnaeus, 1758)  
 Syst. Nat. (ed. 10) 1: 482, no. 144; cited Merian (1705), Ins. Surinam.: 25, pl. 25, and Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. 239, figs. 23, 24; figured by Clerck [1764], Icon. Ins. 2: pl. 40 ♂ D&V.



**Original Combination:** *P[apilio]*. *N[ymphalis]*. [*Phaleratus*] *Vanillae*

**Type Locality:** "Americas"; defined as "Surinam" by Michener (1942), Am. Mus. Novit. (1215): 2; suggested to be "South America, probably Surinam" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 391.

**Types:** Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 391.

= *passiflorae* (Fabricius, 1793)

Entomol. Syst. 3(1): 60-61, no. 189; cited *Papilio vanillae* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 482, no. 144, and Clerck (1764), Icon. Ins. 2: pl. 40, fig. 2.

**Original Combination:** *P[apilio]*. *F[estivi]*. *Passiflorae*

**Type Locality:** "in Passiflora coerulea, laurifolia Americas Dom. von Rohr"

**Types:** Type(s) probably lost.

a. *Agraulis vanillae nigrior* Michener, 1942

Am. Mus. Novit. (1215): 1-2 (in part), no. 2 (key), 7.

**Original Combination:** *Agraulis vanillae nigrior*

**Type Locality:** "Upper Matecumbe Key, Florida" [Monroe County]

**Types:** Holotype in AMNH.

b. *Agraulis vanillae incarnata* (N. Riley, 1926)

Entomol. 59(9)[760]: 243-244.

**Original Combination:** *D[ione]* *vanillae incarnata*

**Type Locality:** "near Durango City, Mexico" [Durango]

**Types:** Lectotype (#Rh10118) in BMNH, designated by Michener (1942), Am. Mus. Novit. (1215): 7; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 10 ♂ D&V.

= # "comstocki" (Gunder, 1925)

Entomol. News 36(1): 5-6, no. 9, pl. 1, fig. T ♂ D.

**Original Combination:** *Dione vanillae* ab. ♂ *comstocki*

**Type Locality:** "Monrovia, Los Angeles County, California"

**Types:** "Holotype" in AMNH.

= # "fumosus" (Gunder, 1927)

Entomol. News 38(5): 137, no. 9, pl. 2, fig. 9 ♀ D (holotype).

**Original Combination:** *Dione vanillae insularis fumosus* ♀ nov. tr. form

**Type Locality:** "Los Angeles, Los Angeles County, California"

**Types:** "Holotype" in AMNH.

= # "margineapertus" (Gunder, 1928)

Can. Entomol. 60(7): 163, pl. A, fig. 3.

**Original Combination:** *Dione vanillae* form norm. *Incarnata* tr. f. *margineapertus*

**Type Locality:** "Los Angeles" [Los Angeles County, California]

**Types:** "Holotype" in AMNH.

= # "hewlettae" (Gunder, 1930)

Bull. Brooklyn Entomol. Soc. 24(5): 327-328, pl. 31, fig. 7 ♀ D&V (holotype).

**Original Combination:** *Dione vanillae* form normal *incarnata* tr. f. *hewlettae*

**Type Locality:** "Ontario, Riverside Co., Calif." [California]

**Types:** "Holotype" in AMNH.

#### Genus *Dryas* Hübner, [1807]

Samml. exot. Schmett. 1: pls. [43], [44]. Type-species: *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281, by designation of Hemming (1934), Entomol. 66(9)[844]: 197.

= *Alcionea* Rafinesque, 1815

Analyse Nat.: 127, no. 19. Type-species: *Papilio alcionea* Cramer, 1779, Utit. Kapellen 3(18): 38, pl. 215, figs. A; (24): 173 (index) (= *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281; subspecies), by tautonymy.

= # *Colaenis* Hübner, [1819]

Verz. bekannt. Schmett. (2): 31-32, no. 5. Type-species: *Papilio iulia* Fabricius, 1775, Syst. Entomol.: 509-510, no. 281, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 146, no. 280. A junior objective synonym of *Dryas*.

\*603. *Dryas iulia* (Fabricius, 1775)

Syst. Entomol.: 509-510, no. 281.

**Original Combination:** *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Iulia*

**Type Locality:** "America. v. Rohr"

**Types:** Lectotype in BMNH, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butts.: 18.

= *juncta* W. Comstock, 1944

Sci. Surv. Puerto Rico & Virgin Is. 12(4): 441-443, fig. 3 venation, pl. 6, fig. 1 ♂ D.

**Original Combination:** *Dryas iulia juncta*

**Type Locality:** "Adjuntas, Porto Rico" [Puerto Rico]

**Types:** Holotype in AMNH.

a. *Dryas iulia largo* Clench, 1975

J. Lepid. Soc. 29(4): 230.

**Original Combination:** *Dryas iulia largo*

**Type Locality:** "Key Largo, Monroe Co., Florida"

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. 1 ♂ D.

b. ***Dryas iulia moderata*** (N. Riley, 1926)

Entomol. 59(9) [760]: 241-242.

**Original Combination:** *C[olaenis]*. *iulia moderata*

Riley adopted *Colaenis iulia delila* form *moderata* Stichel, [1908], to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♀ "moderata" (Stichel, [1908])

In: Wytzman, Gen. Ins. 63: 12, in no. 1c (nota 3).

**Original Combination:** *Colaenis iulia delila* form *moderata*

**Type Locality:** "Honduras"

**Types:** "Holotype" (#525) in ZMHB.

Genus ***Dryadula*** Michener, 1942

Am. Mus. Novit. (1197): 1, no. 6, 4, figs. 5 FW, 10 ♂ genitalia. Type-species: *Papilio phaetusa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 123, by original designation.

604. ***Dryadula phaetusa*** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 478, no. 123; cited Kleeman (1761), Beytr. Nat. Ins., in: Rösel, Monatschr. Ins. Belust. 4: 24, pl. 2, fig. 1.

**Original Combination:** *P[apilio]*. *N[ymphalis]*. [*Phaleratus*] *Phaetusa*

**Type Locality:** "Indiis"

**Types:** Lectotype in UZIU (#1946), designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 361.

= *stupenda* (N. Riley, 1926)

Entomol. 59(9) [760]: 240.

**Original Combination:** [*Colaenis phaetusa*] *stupenda*

Riley adopted *Colaenis phaetusa* forma *stupenda* Stichel, [1908], to represent a subspecies-level taxon (for Central American populations), with the same data (Code Articles 10.2, 45.5.1); it was treated as a synonym of *D. phaetusa* by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 265.

= ♀ "stupenda" (Stichel, [1908])

In: Wytzman, Gen. Ins. 63: 13, no. 2α (nota 1).

**Original Combination:** *C[olaenis]*. *phaetusa* forma *stupenda*

**Type Locality:** "Panama (Bugaba)"

**Types:** "Holotype" (#533) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 3 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "deleta" (Stichel, [1908])

In: Wytzman, Gen. Ins. 63: 13, no. 2β (nota 2).

**Original Combination:** *C[olaenis]*. *phaetusa* forma *deleta*

**Type Locality:** "Paraguay"; holotype from "Paraguay, Nuev. Germania."

**Types:** "Holotype" (#532) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 4 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "lutulenta" (Stichel, [1908])

In: Wytzman, Gen. Ins. 63: 13, no. 2γ.

**Original Combination:** *C[olaenis]*. *phaetusa* forma ♀ *lutulenta*

**Type Locality:** "Paraguay"; holotype from "Paraguay, Nuev. Germania."

**Types:** "Holotype" (#532) in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 1, fig. 5 ♀ D&V.

Genus ***Eueides*** Hübner, 1816

Verz. bekannt. Schmett. (1): 11. Type-species: *Nereis dianasa* Hübner, [1806], Samml. exot. Schmett. 1: [17], [18], pl. [8], figs. 1, 2, 3, 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 169-170, no. 415.

= ♀ *Evides* Agassiz, 1847

Nomencl. Zool. (4to ed.) (12) (index univ.): 147, 153. An unjustified emendation of *Eueides* Hübner, 1816.

= ♀ *Mechanitis* [Illiger], 1807

Allg. Lit.-Zeit. 2(303): 1180. Type-species: *Nereis dianasa* Hübner, [1806], Samml. exot. Schmett. 1: [9], [10], [17], [18], pl. [8], figs. 1-4, by designation of Hemming (1964), Annot. Lepid. (4): 125. I.C.Z.N. *Opinion* 232 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 43.

= *Semelia* E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 64. Type-species: *Cethosia vibilia* Godart, 1819, Enc. méth. 9(Ins.) (1): 245, no. 6, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 267, no. 961.

= ♀ *Semelia* Erichson, [1849]

In: Schomburgk, Reisen Brit-Guiana 3: 596. Type-species: *Papilio lybia* Fabricius, 1775, Syst. Entomol.: 460, no. 73, by monotypy. Preoccupied by *Semelia* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 64.

= ♀ *Semelia* Boisduval, 1870

Consid. Lépid. Guat.: 35. Type-species: *Cethosia vibilia* Godart, 1819, in: Enc. méth. 9(Ins.) (1): 245, by monotypy. Preoccupied



by *Semelia* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 64, and a junior objective synonym of that name.

\*605. **Eueides isabella** (Stoll, 1781)

Uitl. Kapellen 4(30): 117, pl. 350, figs. C ♂ V, D ♂ D; (34): 250 (index).

**Original Combination:** *Pap[ilio]. Helicon[ius]. Isabella*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

a. **Eueides isabella eva** (Fabricius, 1793)

Entomol. Syst. 3(1): 162, no. 501; cited Jones' Icones 2: pl. 20, fig. 1.

**Original Combination:** *P[apilio] H[eliconiū]. Eva*

**Type Locality:** "Surinami. Dom. Drury" probably in error; suggested to be "Panama" by Lamas (1973), Revta. bras. Entomol. 17(19): 128.

**Types:** Type(s) probably lost.

Lamas (1973), Revta. bras. Entomol. 17(19): 127-130, detailed the use of this name over *zorcaon*, based on his examination of copies of William Jones' unpublished drawings in the BMNH.

= *anaxa* Ménétériés, 1855

Enum. corp. anim. (1): 21, no. 376; 115-116, no. 376.

**Original Combination:** *Eueides Anaxa*

**Type Locality:** "Mexique"

**Types:** Holotype probably in ZIN.

= *zorcaon* Reakirt, 1866

Proc. Acad. Nat. Sci. Philad. [18](3): 243, no. 12.

**Original Combination:** *Eueides zorcaon*

**Type Locality:** "Mexico (near Vera Cruz)...Honduras, Guatemala"

**Types:** Probable syntypes in FMNH.

= *†adusta* Stichel, 1903

Berl. Entomol. Z. 48(1/2): 11, no. 3bα.

**Original Combination:** [*Eueides cleobaea zorcaon*] ab. nov. *adusta*

**Type Locality:** "Chiriqui, Honduras"; syntypes from "Panama, Bugaba; Honduras; Mexico, Vera Cruz"

**Types:** "Syntypes" in BMNH; a possible syntype figured by Seitz (1912), *in*: Seitz, Grossschmett. Erde 5(151): pl. 80g, [2] ♂ D; a "syntype" was figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 5, fig. 48 ♀ D&V.

Genus **Heliconius** Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 82-84, no. 143. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, by designation of Hemming (1933), Entomol. 66(10)[845]: 223. I.C.Z.N. *Opinion* 382 placed this name on the *Official List of Generic Names in Zoology* as name no. 923.

= *†Heliconius* Latreille, [1804]

Nouv. Dict. Hist. Nat. 24(tab.): 185, 199. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, by designation of Hemming (1933), Entomol. 66(9)[844]: 198. A junior objective synonym of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 384.

= *†Heliconia* Latreille, 1818

Nouv. Dict. Hist. Nat. appl. Arts (2nd ed.) 24: 509; an unjustified emendation of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 385 (credited to Godart, 1819).

= *†Migonitis* Hübner, 1816

Verz. bekannt. Schmett. (1): 12. Type-species: *Papilio erato* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 54, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 218-219, no. 698. Preoccupied by *Migonitis* Rafinesque, 1815, Analyse Nat.: 147.

= *Sunias* Hübner, 1816

Verz. bekannt. Schmett. (1): 12. Type-species: *Papilio melpomene* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 55, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 271, no. 990.

= *†Apostrophia* Hübner, 1816

Verz. bekannt. Schmett. (1): 13. Type-species: *Papilio charithonia* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 757, no. 65, designated by Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 116, no. 106. A junior objective synonym of *Heliconius* Kluk, 1780. I.C.Z.N. *Opinion* 381 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 386.

= *†Sicyonia* Hübner, 1816

Verz. bekannt. Schmett. (1): 13. Type-species: *Papilio rhea* Cramer, 1775, Uitl. Kapellen 1(5): 85, pl. 54, figs. C, D (= *Papilio sara* Fabricius, 1793, Entomol. Syst. 3(1): 167), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 268, no. 967. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 380.

= *†Sycionia* Hübner, [1826]

Verz. bekannt. Schmett. Anzeiger: 7. An unjustified emendation of *Sicyonia* Hübner, [1816]. I.C.Z.N. *Opinion* 382 suppressed this name and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 381.

= *Ajantis* Hübner, 1816

Verz. bekannt. Schmett. (1): 13-14. Type-species: *Papilio sapho* Drury, 1782, Ill. Nat. Hist. 3: 54, index, pl. 38, fig. 4, by designation of



Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 106, no. 43.

= ‡*Phlogris* Hübner, [1825]

Samml. exot. Schmett. 2: pl. [5]. Type-species: *Papilio melpomene* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 467, no. 55, by monotypy. A junior objective synonym of *Sumias*.

= ‡*Blanchardia* Buchecker, [1880]

Syst. Entomol. 2: pl. 51. Type-species: *Heliconia* [sic] *choarina* Hewitson, 1872, Entomol. Mon. Mag. 9(100): 83 (= *Heliconia* [sic] *hecuba* Hewitson, [1858], Ill. exot. Butts. 2(25): [25], pl. Tithorea &c. [13], fig. 11), by monotypy. Preoccupied by *Blanchardia* Castelnau (1875), Philad. Cent. Exhib. 1876 Sect. 7(2): 47.

\*606. ***Heliconius charithonia*** (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 757, no. 65; index, no. 65 (as *charitonia*); cited Sloane (1725), Voy. Mad. Barb. Niev. St. Christ. Jam. 2: pl. figs. 15, 16, and G. Edwards (1747), Nat. Hist. Birds 2: 80, pl. 80.

**Original Combination:** *P*[*apilio*]. *H*[*eliconius*]. *Charithonia*

**Type Locality:** "America"; suggested to be "one of the Virgin Islands" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 438-439; further defined as "the island of St. Thomas, Virgin Islands" by Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 10. [United States Virgin Islands]

**Types:** Lectotype in LSUK, designated by W. Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 11, fig. 2 ♂ D.

I.C.Z.N. *Opinion* 382 placed this name (spelled *charithonia*) on the *Official List of Specific Names in Zoology* as name no. 616. W. Comstock and F. Brown (1950), Am. Mus. Novit. (1467): 1-2, selected the spelling *charithonia* over *charithonia* as first revisers, but the *Official List* supercedes that action.

a. ***Heliconius charithonia tuckeri*** W. Comstock & F. Brown, 1950

Am. Mus. Novit. (1467): 13, no. F, 15-16, fig. 3, no. F ♂ D.

**Original Combination:** *Heliconius charitoni* *tuckeri*

**Type Locality:** "Winter Park, Florida" [Orange County]

**Types:** Holotype in AMNH.

b. ***Heliconius charithonia vazquezae*** W. Comstock & F. Brown, 1950

Am. Mus. Novit. (1467): 13, no. 6, 16, fig. 3, no. G ♂ D.

**Original Combination:** *Heliconius charitoni* *vazquezae*

**Type Locality:** "Campeche, Mexico"

**Types:** Holotype in AMNH.

\*607. ***Heliconius erato*** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 467, no. 54.

**Original Combination:** *P*[*apilio*]. *H*[*eliconius*]. *Erato*

**Type Locality:** "Indiis"; neotype from "Berg, en Dal, Surinam."

**Types:** Neotype in BMNH, designated by I.C.Z.N. *Opinion* 1386.

*Opinion* 1386 addressed this taxon and the confusion between it and *Heliconius doris* (Linnaeus, 1771); the name *erato* was placed on the *Official List of Specific Names in Zoology*, no number yet designated. Most of the Neotropical synonymy has been omitted.

= *vesta* (Cramer, 1777)

Uitl. Kapellen 2(10): 33, pl. 119, fig. A ♂ D; (16): 151 (index).

**Original Combination:** *Pap*[*ilio*]. *Hel*[*iconius*]. *Vesta*

**Type Locality:** "Surinamsche" "Suriname"

**Types:** Type(s) probably lost.

= *erythra* (Cramer, 1777)

Uitl. Kapellen 2(16): 141, pl. 189, fig. A ♂ D; (16): 148 (index).

**Original Combination:** *Pap*[*ilio*]. *Hel*[*iconius*]. *Erythra*

**Type Locality:** "Surinamsche" "Suriname"

**Types:** Type(s) probably lost.

= *andremona* (Cramer, 1780)

Uitl. Kapellen 4(25): 14, pl. 297, fig. A ♂ D; (34): 247 (index).

**Original Combination:** *Pap*[*ilio*]. *Hel*[*iconius*]. *Andremona*

**Type Locality:** "Surinamsche" "Suriname"

**Types:** Type(s) probably lost.

= *udalrica* (Cramer, 1780)

Uitl. Kapellen 4(25): 14, pl. 297, fig. B ♂ D; (34): 252 (index).

**Original Combination:** *Pap*[*ilio*]. *Hel*[*iconius*]. *Udalrica*

**Type Locality:** "Surinamsche" "Suriname"

**Types:** Type(s) probably lost.

= *cynisca* (Godart, 1819)

Ency. méth. 9(Ins.) (1): (203), 205 no. 8.

**Original Combination:** *Heliconia* *Cynisca*

**Type Locality:** "Guyane"

**Types:** Location of type(s) not known.

a. ***Heliconius erato petiverana*** (E. Doubleday, 1847)

In: Gen. diurn. Lepid. (1) (10): 103, no. 18; cited Petiver (1702), Gazophylacium: pl. 4, fig. 2.

**Original Combination:** *Hel*[*iconia*]. *Petiverana*

**Type Locality:** "Mexico, Honduras"; syntype from "Mexico."

**Types:** Syntype in BMNH; figured by Ackery and Smiles (1976), Bull. Brit. Mus. (Nat. Hist.) Entomol. 32(5): pl. 29, fig.

292 ♂ D&V.

= *mexicana* Boisduval, 1870

Consid. Lépid. Guat.: 28; cited *Heliconia demophoon* Ménétériés, 1855, Enum. corp. anim. (1): 86, no. 331-332, pl. 2, fig. 4, and Petiver (1702), Gazophylacium: pl. 4, fig. 2.

**Original Combination:** *Heliconius Mexicana*

**Type Locality:** "Mexique et à Honduras"

**Types:** Petiver's figure might be considered to represent the type; if extant, the specimen(s) upon which the figure was based might be in BMNH or MNHP.

#### Tribe *Argynnini* Swainson, 1833

Zool. Illustr. (2)3(29): pl. 136, unnumbered text (as "Argynninae"). Type-genus: *Argynnis* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 287. I.C.Z.N. *Direction* 99 placed Argynnidae Duponchel, 1844, on the *Official List of Family-group Names in Zoology* as name no. 228, and placed Argynnidae Aurivillius, [1911], on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 266. I.C.Z.N. *Direction* 118 corrected the literature citation as above. I.C.Z.N. *Opinion* 161 placed *Argynnis* on the *Official List of Generic Names in Zoology* as name no. 609.

#### Subtribe *Euptoieta* Simonsen, 2006

Biol. J. Linn. Soc. 89(4): 648, figs. 8L, 8M, 11L, 11M, 15Oo, 15Pp, 21A, 21B, 22W, 23W, 32C, 32D. Type-genus: *Euptoieta* E. Doubleday, 1848, in: Gen. diurn. Lepid. (1) (20): 169-170.

#### Genus *Euptoieta* E. Doubleday, 1848

In: Gen. diurn. Lepid. (1) (20): 169-170. Type-species: *Papilio claudia* Cramer, 1775, Uidl. Kapellen 1(6): 109, pl. 69, figs. E, F, by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 43.

\*608. ***Euptoieta claudia*** (Cramer, 1775)

Uidl. Kapellen 1(6): 109, pl. 69, figs. E ♂ D, F ♂ V; (8): 152 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phalerat[a]. Claudia*

**Type Locality:** "Jamaika" "Jamaïque"

**Types:** Type(s) probably lost.

= *daunius* (Herbst, 1798)

In: Jablonsky, Natursyst. Ins., Schmett. 9: 184-185, no. 11, pl. 256, figs. 1, 2.

**Original Combination:** *Papilio Daunius*

**Type Locality:** "Ostindien" [East Indies]

**Types:** Type(s) probably lost.

= *†clausius* (Herbst, 1798)

In: Jablonsky, Natursyst. Ins., Schmett. 9: 189-190, no. 14, pl. 257, figs. 3, 4; cited *Papilio claudia* Cramer, 1775.

**Original Combination:** *Papilio Clausius*

Proposed to replace *Papilio claudia* Cramer, 1775, erroneously thought to be preoccupied; a junior objective synonym of *Papilio claudia*.

= *†dodgei* Gunder, 1927

Entomol. News 38(5): 135-136, no. 6, pl. 2, fig. 6 ♀ D (holotype).

**Original Combination:** *Euptoieta claudia dodgei* ♀ nov. tr. form

**Type Locality:** "near Scribner, Dodge County, Nebraska"

**Types:** "Holotype" possibly in CAS.

= *†fumosa* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 22-23.

**Original Combination:** *Euptoieta claudia* tr. f. *fumosa*

**Type Locality:** "Hatfield, Ark." [Polk County, Arkansas]

**Types:** "Holotype" probably in USNM.

= *†albaclaudia* W. D. Field, 1936

J. Entomol. & Zool. 28(2): 23.

**Original Combination:** *Euptoieta claudia* tr. f. *albaclaudia*

**Type Locality:** "Miami, Fl." [Miami-Dade County, Florida]

**Types:** "Holotype" in USNM.

*†thais* (E. Doubleday, 1848)

In: Gen. diurn. Lepid. (1) (20): 170.

**Original Combination:** *P[apilio]. Thais*

This name was listed in the synonymy of *claudia* without a description or indication; a *nomen nudum*.

*†marianne* Scudder, 1889

Butts. E. U. S. & Can. 1(4): 519.

**Original Combination:** [*Euptoieta claudia*] = *Papilio marianne* Abb.

This name was listed in the synonymy of *claudia* without a description or indication; a *nomen nudum*.

\*609. ***Euptoieta hegesia*** (Cramer, 1779)

Uidl. Kapellen 3(18): 30, pl. 209, figs. E ♂ D, F ♂ V; 3(24): 175 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phal[erata]. Hegesia*

**Type Locality:** "Nord-Amerika, en Nieuwjork, en op Eiland Jamaïka" "l'Amerique septentrionale, à la Nouvelle-York, & dans l'Isle de la Jamaïque"; neotype from "Montego Bay, Jamaica."

**Types:** Neotype in AMNH, designated by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 445. It is possible that syntypes may exist in BMNH.

= *columbina* (Fabricius, 1793)

Entomol. Syst. 3(1): 148, no. 453; cited Jones' Icones 5: pl. 7, fig. 2.

**Original Combination:** *P[apilio]*. *N[ymphales]*. *Columbina*

**Type Locality:** "America Mus. Dom. Jones"

**Types:** Syntypes include the specimen figured in the unpublished plates by William Jones.

a. *Euptoieta hegesia meridiania* Stichel, 1938

Lepid. Cat. 86: 111; cited *Brenthis claudia* (sensu Geyer (1837), Zutr. Samml. exot. Schmett. 5: 11, pl. [143], figs. 831, 832).

**Original Combination:** [*Euptoieta*] *h[egesia]* *meridiania*

**Type Locality:** "Süd-Brasilien (typ.: Espirito Santo)" [Espirito Santo, Brazil]

**Types:** Type(s) possibly in BMNH or lost.

= *hoffmanni* W. Comstock, 1944

Sci. Surv. Puerto Rico & Virgin Is. 12(4): 446, note 1, fig. 6 FW marking.

**Original Combination:** *Euptoieta hegesia hoffmanni*

**Type Locality:** "Mexico...Escuinapa, Sinaloa"

**Types:** Holotype in AMNH.

Subtribe **Boloriina** B. Warren, dos Passos & Grey, 1946

Proc. R. Entomol. Soc. Lond. (B) 15(5/6): 72 (as "Boloriidi"). Type-genus: *Boloriidi* Moore, 1900, Lep. Ind. 4(48): 243.

Genus **Boloria** Moore, 1900

Lepid. Ind. 4(48): 243-244. Type-species: *Papilio pales* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176-177, 321, by original designation. The genus-level synonymy adopted herein is derived from Grey (1989), J. Lepid. Soc. 43(1): 2, Aubert *et al.* (1996), C. R. Acad. Sci. (Ser. 3) Sci. Vie 319(7): 647-651, and Simonsen (2005), Syst. Entomol. 30(4): 653-665.

Subgenus **Boloria** Moore, 1900

= *Proclossiana* Reuss, 1926

Dtsche. Entomol. Z. 1926(1): 69. Type-species: *Papilio aphirops* Hübner, [1800], Samml. Europ. Schmett. 1: 8, no. 1, pl. 5, figs. 23, 24, 25 (= *Papilio eunomia* Esper, 1800, Die Schmett. 1(suppl.) (1) (8-9): 94, no. 212, pl. 110, no. 5), by original designation.

= *Smoljana* Slivov, 1995

Acta Zool. Bulg. 48: 62-63, fig. 1. Type-species: *Boloria (Smoljana) rhodopensis* Acta Zool. Bulg. 48: 63-65, figs. 2(1, 2, 3, 3a, 4, 5), 4(1, 2, 3, 4, 5, 6), by original designation.

610. **Boloria alaskensis** (W. Holland, 1900)

a. **Boloria alaskensis alaskensis** (W. Holland, 1900)

Entomol. News 11(3): 383, no. 6.

**Original Combination:** *B[renthis]* *pales* var. *alaskensis*

**Type Locality:** "mountains between Forty-Mile and Mission Creeks" [Alaska]

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 24, ♂ D.

Crosson du Cormier (1977), Alexanor 10(1): 35-47, detailed the separation of this species from *B. napaea* (Hoffmansegg, 1804) in: Illiger, Mag. f. Insektenk. 3(3): 196. This arrangement was corroborated by Dubatolov (1992), Vestnik Zoologii 1992(6): 40-41, Kosterin (2000), Far East Entomol. 86(1): 1-10, and Gorbunov (2001), Butts. Russia Class.: 201-202.

= *reiffi* Reuss, 1925

Int. Entomol. Z. 19(36): cols. 279-280.

**Original Combination:** *Boloria reiffi*

**Type Locality:** "Britisch-Columbien" [British Columbia]

**Types:** Syntypes in Reuss collection.

Pike (1981), J. Res. Lepid. 18(3): 157, suggested that this may be a subspecies-level taxon.

= *†nearctica* Verity, 1932

Dtsche. Entomol. Z. "Iris" 46(3): 104, 108; cited Lehmann (1913), in: Seitz, Grossschmett. Erde 5(173): 424.

**Original Combination:** [*Boloria pales arsilache*] race *nearctica*

**Type Locality:** "north-eastern Alaska (69° 40' N. Lat. and 141° W. Long.)"

**Types:** Location of type(s) not known.

b. **Boloria alaskensis halli** Klots, 1940

Am. Mus. Novit. (1054): 1-4.

**Original Combination:** *Boloria pales halli*

**Type Locality:** "vicinity of Green River Pass, Wind River Range, Sublette Co., Wyoming"

**Types:** Holotype in AMNH.

\*611. **Boloria eunomia** (Esper, 1800)

Die Schmett. 1(suppl.) (1) (8/9): 94, no. 212; pl. 110 (cont. 65), fig. 5 ♂ D&V.

**Original Combination:** *Pap[ilio]*. *Nymph[alis]*. *phal[erata]*. *Eunomia*



**Type Locality:** "Königsberg in Preussen" [Kaliningrad, Kaliningrad Oblast, Russia]

**Types:** Location of type(s) not known, probably lost.

= *aphirape* (Hübner, [1800])

Samml. Europ. Schmett. 1: 8, no. 1, pl. 5, figs. 23 ♂ D, 24 ♂ V, 25 ♀ D.

**Original Combination:** [*Papilio*] *Aphirape*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

= *tomiris* (Herbst, 1800)

In: Jablonsky, Natursyst. Ins. Schmett. 10: 102-104, no. 41, pl. 270, figs. 6 ♀ D, 7 ♀ V.

**Original Combination:** *Papilio Tomiris*

**Type Locality:** "Preussen" [Northern Germany and Poland]

**Types:** Type(s) probably lost.

a. ***Boloria eunomia tricularis*** (Hübner, [1821])

Samml. exot. Schmett. 2: pl. [19], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V; [1] (index).

**Original Combination:** *Argynnis Tricularis*

**Type Locality:** Not stated; listed as "Labrador" by W. F. Kirby (1908), in: P. Wytsman, Fac. ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 17; suggested to be "Moravian missionaries in Labrador" by W. Holland (1928), Ann. Carnegie Mus. 19(1): 38-39, no. 5, stated to be "Labrador" by Hemming (1937), Hübner 2: 123 (manuscript #36); subsequently defined as "Nain, Labrador, Canada" by Pike (1981), J. Res. Lepid. 18(3): 160. [Newfoundland and Labrador]

**Types:** Type(s) probably lost.

= *lais* (Scudder, 1875)

Proc. Boston Soc. Nat. Hist. 17(3): [294]-296.

**Original Combination:** *Arg[ynnis]. Lais*

**Type Locality:** "Caribou Island, Straits of Belle Isle, Labrador...also...at Mackenzie River...Colorado"

This name was listed in the synonymy of *Argynnis tricularis* Hübner, [1821], but not described; it was a *nomen nudum* until the name *helenae* was proposed to replace *Argynnis lais* W. H. Edwards, 1864, by dos Passos and Grey (1957), J. N. Y. Entomol. Soc. 63: 95-96. This action made *Argynnis lais* Scudder, 1875, available (Code Article 45.6.4.1).

b. ***Boloria eunomia dawsoni*** (W. Barnes & McDunnough, 1916)

Can. Entomol. 48(7): 222-223.

**Original Combination:** *Brenthis aphirape dawsoni*

**Type Locality:** "Hymers, Ont." [Ontario]

**Types:** Syntypes in USNM and LACM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, figs. 11 ♂ D, 12 ♀ D.

= *harperi* (Gunder, 1934)

Can. Entomol. 66(6): 127.

**Original Combination:** *Brenthis aphirape dawsoni* tr. f. *harperi*

**Type Locality:** "Churchill, Man., Canada" [Manitoba]

**Types:** Holotype in CAS.

c. ***Boloria eunomia nichollae*** (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 92, no. 188d.

**Original Combination:** *Brenthis aphirape* race *nichollae*

**Type Locality:** "Rocky Mts."; defined as "Mt. Assiniboine...11,800 feet...just west of the Divide...the southernmost outlier of the glacier fields of the northern Rockies" by Nicholl (1906), 36th Ann. Rept. Entomol. Soc. Ont. (1905): 72; suggested to be "near the Columbia Ice Fields" by Pike (1981), J. Res. Lepid. 18(3): 157-158. [British Columbia]

**Types:** Holotype in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, fig. 14 ♂ D.

Ferris and Groothuis (1971), J. Res. Lepid. 9(4): 243, discussed this taxon.

d. ***Boloria eunomia denali*** (Klots, 1940)

J. N. Y. Entomol. Soc. 48(4): 413-414.

**Original Combination:** *Brenthis (Clossiana) aphirape denali*

**Type Locality:** "McKinley National Park" [Denali National Park, Alaska]

**Types:** Holotype in AMNH.

e. ***Boloria eunomia ursadentis*** Ferris & Groothuis, 1971

J. Res. Lepid. 9(4): 245-247, figs. 4 ♂ D, 5 ♀ D, 6 ♂ V, 7 ♀ V, 8 ♀ V (aberrant), 9 ♀ D.

**Original Combination:** *Boloria eunomia ursadentis*

**Type Locality:** "Beartooth Pass, ½ mile S. of Montana-Wyoming border, Park Co., Wyoming"

**Types:** Holotype in MGCL.

f. ***Boloria eunomia laddi*** (Klots, 1940)

Am. Mus. Novit. (1054): 4.

**Original Combination:** *Clossiana aphirape laddi*

**Type Locality:** "Snowy Range, Albany Co., Wyoming"

**Types:** Holotype in AMNH.

g. ***Boloria eunomia caelestis*** (Hemming, 1933)

Entomol. 66(12) [847]: 275, no. 5.

**Original Combination:** *Argynnis aphirape caelestis*

Proposed to replace *Brenthis aphirape alticola* W. Barnes and McDunnough, 1913, preoccupied, with the same data (Code Article 60.3).

= *alticola* (W. Barnes & McDunnough, 1913)

Contr. Nat. Hist. Lepid. N. Am. 2(3): 97-98.

**Original Combination:** [*Brenthis*] *aphirape alticola*

**Type Locality:** "Hall Valley, Colo." [Park County, Colorado]

**Types:** Syntypes in USNM.

Preoccupied by *Argynnis alticola* Sushkin & Tsetverikov, 1907, Horae Soc. Entomol. Ross. 38(1): 18. Currently this name is employed for a subspecies of *Boloria* (*Clossiana*) *angarensis* Erschoff, 1870. Even if *Proclossiana* and *Clossiana* are considered separate genera from *Boloria*, this name is no longer valid, since a replacement name was proposed before 1961, and that name has generally been used (Code Article 59.3).

#### Subgenus *Clossiana* Reuss, 1920

Entomol. Mitt. 9(10-12): 192 (footnote); rediagnosed by Reuss (1921), Entomol. Mitt. 10(6): 190, figs. 13-18 ♂ genitalia. Type-species: *Papilio selene* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176-177, 321, by original designation.

*selene* group Gorbunov, 2001

Butts. Russia Class.: 195.

#### \*612. *Boloria selene* ([Schiffermüller], 1775)

Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176-177, 321.

**Original Combination:** *P[apilio] Selene*

**Type Locality:** "Wienergegend" from the title of the work. [Vienna, Austria]

**Types:** Type(s) probably lost.

= *marphisa* (Herbst, 1800)

In: Jablonsky, Natursyst. Ins., Schmett. 10: 105-107, no. 42, pl. 270, figs. 8 ♂ D, 9 ♂ V.

**Original Combination:** *Papilio Marphisa*

**Type Locality:** Not stated.

**Types:** Type(s) probably lost.

= *rinaldus* (Herbst, 1800)

In: Jablonsky, Natursyst. Ins., Schmett. 10: pl. 272, figs. 2, 4 [pl. 271, figs. 1-4].

**Original Combination:** *Papilio Rinaldus*

**Type Locality:** "Botnia occidentali" [western Gulf of Bothnia, Sweden]

**Types:** Type(s) probably lost.

= *selenia* (Freyer, [1832])

Neuer Beitr. Schmett. Abbild. Natur. 6(83): 21-22, pl. 493, fig. 2 ♂ D&V.

**Original Combination:** *Pap[ilio]. Argynnis Selenia*

**Type Locality:** "Lechstluß"

**Types:** Holotype probably lost.

This was considered an "Abart von *Selene*" in text, so may be unavailable.

= *hela* Staudinger, 1861

In: Wocke and Staudinger, Stettiner Entomol. Ztg. 22(10-12): 347, under no. 11.

**Original Combination:** [*Argynnis Selene*] [var.] *Hela*

**Type Locality:** "schwedischen Lapland" [Swedish Lapland]

**Types:** Type(s) possibly in ZMHB.

= *obscurum* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 101.

**Original Combination:** *Boloria selene* subsp. nova *obscurum*

**Type Locality:** "Polar Ural Station, on the crest of the Polar Urals; in a meadow amidst mountain dry and marshy tundra" [Komi Republic, Russia]

**Types:** Syntypes possibly in ZIN,

#### a. *Boloria selene myrina* (Cramer, 1777)

Uitl. Kapellen 2(16): 141, 150, pl. 189, figs. B ♂ D, C ♂ V; (16): 150 (index).

**Original Combination:** *Pap[ilio]. Nymphj[alis]. Phal[erata]. Myrina*

**Type Locality:** "Noord-Amerika by Nieuwjork" "l'Amerique Septentrionale, à la Nouvelle York"; suggested to be "from southeastern New York" by Kohler (1977), J. Lepid. Soc. 31(4): 240.

**Types:** Type(s) probably lost.

= *myrissa* (Godart, [1824])

In: Ency. méth. 9(Ins.) (2): (253), 268, 806.

**Original Combination:** *Argynnis Myrissa*

Proposed to replace *Papilio myrina* Cramer, 1777, erroneously thought preoccupied; a junior objective synonym of *myrina*.

= *marilandica* (A. Clark, 1941)

J. Wash. Acad. Sci. 31(9): 384.

**Original Combination:** *Brenthis selene marilandica*

**Type Locality:** "the boggy pasture on the south side of the road from the Beltsville, M., railway station to the Department of Agriculture experiment farm" [Prince George's County, Maryland]

**Types:** Holotype (#55470) in USNM; figured by A. Clark (1932), Bull. U. S. Nat. Mus. (157): pl. 3, figs. 5 ♂ D, 6 ♂ V, and A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., figs. 1 ♀ V, 2 ♂ D (holotype); pl. 9, figs. B ♂ D, C ♂ V.

= *myrissa* (Scudder, 1889)

Butts. E. U. S. & Can. 1(5): 595-596.

**Original Combination:** *B[renthis]. m[yrina]. [ab.] nubes*

**Type Locality:** "Sanborton, N. H." [Belknap County, New Hampshire]

**Types:** "Holotype" (#29298) in MCZ.

The text clearly indicates that this taxon was described as an individual variant.

= *‡*"nivea" (Gunder, 1928)

Can. Entomol. 60(7): 163, pl. A, fig. 4 ♂ D (holotype).

**Original Combination:** *Brenthis myrina* tr. f. *nivea*

**Type Locality:** "Staten Island, N. Y." [New York]

**Types:** "Holotype" in AMNH.

*‡*"gunderana" W. Forbes, 1960

Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 150, under no. 1.

**Original Combination:** [*Brenthis selene*] ab. *gunderana*

Forbes (1960), attributed this name to Dyar, who never described the taxon; a *nomen nudum*.

**b. Boloria selene nebraskensis** (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 36-37, no. 1c.

**Original Combination:** *B[renthis]. myrina nebraskensis* var. nov.

**Type Locality:** "Dodge County, Nebraska"

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 105, pl. 55 fig. 8 ♂ D.

**c. Boloria selene sabulocollis** Kohler, 1977

J. Lepid. Soc. 31(4): 252-253, figs. 3(a) ♂ D (holotype), 3(b) ♂ V (holotype), 3(c) ♂ D, 3(d) ♂ V, 3(e) ♂ D, 3(f) ♂ V, 6(g) ♀ D, 6(h) ♀ V, 7(a) ♀ D, 7(b) ♀ V, 7(c) ♀ D, 7(d) ♀ V.

**Original Combination:** *Boloria selene sabulocollis*

**Type Locality:** "Smith Lake, Sheridan Co., Nebraska"

**Types:** Holotype in AMNH.

**d. Boloria selene tollandensis** (W. Barnes & Benjamin, 1925)

Entomol. News 36(2): 44.

**Original Combination:** *Brenthis myrina tollandensis* race nov.

**Type Locality:** "Tolland, Moffat [*sic*] County, Colorado, altitude approximately 10,000 ft." [Gilpin County]

**Types:** Holotype in USNM.

**e. Boloria selene albequina** (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 40-43, no. 6.

**Original Combination:** *B[renthis]. albequina*

**Type Locality:** "White Horse Pass, Yukon Territory"

**Types:** Syntypes in CMNH; figured by W. Holland (1931), Butt. Book. (rev. ed.): pl. 55, figs. 19 ♂ D, 20 ♀ V, 21 ♂ V.

McDunnough (1932), Can. Entomol. 64(12): 269, and Ferris (1971), Sci. Monog. Agric. Exp. Sta., U. Wyo.: 46, treated this taxon as a synonym of *B. s. atrocotalis*.

= *‡*"baxteri" (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 42, no. 6 (in part).

**Original Combination:** *B[renthis]. albequina* var. *baxteri* aberrational form

**Type Locality:** "White Horse Pass, Yukon Territory"

**Types:** "Holotype" in CMNH.

**f. Boloria selene atrocotalis** (Huard, 1927)

Nat. Can. 54(6) [(2)34(60): 131, no. 8.

**Original Combination:** *Argynnis atrocotalis*

**Type Locality:** "Chicoutimi" [Quebec]

**Types:** Location of type(s) not known; McDunnough (1928), Can. Entomol. 60(11): 274, claimed to have examined the "type" so it is presumed to be in CNC.

= *‡*"serratimarginata" (Gunder, 1926)

Entomol. News 37(1): 7, no. 10, pl. 1, fig. 10 ♂ D ("holotype").

**Original Combination:** *Brenthis myrina* ab. ♂ *serratimarginata*

**Type Locality:** "Vernon, British Columbia, Canada"

**Types:** Holotype in AMNH.

= *‡*"jenningsae" (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 36, no. 1a.

**Original Combination:** *B[renthis]. myrina jenningsae* ♂ ab. nov.

**Type Locality:** "Jellicoe, on Thunder Bay, Ontario"

**Types:** "Holotype" (#5921) in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 9 ♂ D.

**g. Boloria selene terraenovae** (W. Holland, 1928) (emended)

Ann. Carnegie Mus. 19(1): 36, no. 1b.

**Original Combination:** *B[renthis]. myrina terrae-novae*

**Type Locality:** "Newfoundland"; suggested to be "the eastern part of the island" by Kohler (1977), J. Lepid. Soc. 31(4): 262. [Newfoundland and Labrador]

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 13 ♂ D.

613. **Boloria bellona** (Fabricius, 1775)

**a. Boloria bellona bellona** (Fabricius, 1775)

Syst. Entomol.: 517-518, no. 317.



**Original Combination:** *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Bellona*

**Type Locality:** "America boreali"

**Types:** Syntype in ZMUC.

= *‡*"fasciata" (T. Cockerell, 1889)

Entomol. 22(311): 99; cited Maynard (1886), Butts. New England: 27-28 (in part), under no. 31.

**Original Combination:** *Argynnis bellona fasciata*

**Type Locality:** Not stated; "Massachusetts" implied from reference to Maynard.

**Types:** "Type(s)" probably lost.

The text clearly indicates that this taxon was described as an individual variant.

= *‡*"kleenei" (F. Watson, 1921)

J. N. Y. Entomol. Soc. 28(3/4): 171-172.

**Original Combination:** *Brenthis bellona* ab. *kleenei*

**Type Locality:** "West Hartford, Connecticut" [Hartford County]

**Types:** "Holotype" in AMNH.

= *‡*"pardopsis" (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 45, no. 11b.

**Original Combination:** *B[renthis]*. *bellona* ab. *pardopsis*

**Type Locality:** "Crafton, Allegheny County, Pa." [Pennsylvania]

**Types:** "Holotype" in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 26 ♂ D.

= *‡**ammiralis* (Hemming, 1933)

Entomol. 66(12)[847]: 276, no. 7.

**Original Combination:** *Argynnis ammiralis*

Proposed to replace *Papilio bellona* Fabricius, 1775, erroneously thought preoccupied; a junior objective synonym of *bellona*.

b. *Boloria bellona toddi* (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 45, no. 11a.

**Original Combination:** *B[renthis]*. *bellona toddi*

**Type Locality:** "St. Margarets River...near Sept-Iles along a river that was called Riviere Sainte-Marguerite; Quebec" This river was dammed near its confluence with the St. Laurence River, and the resulting reservoir is called Lac-Walker.

**Types:** Holotype (#5269) in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 14 ♂ D.

c. *Boloria bellona jenistai* D. Stallings & Turner, 1947

Can. Entomol. 78(7/8): 135-136.

**Original Combination:** *Boloria toddi jenistai*

**Type Locality:** "Lloydminster, Sask."; suggested to be "the vicinity of Rivercourse, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 39.

**Types:** Holotype in USNM.

\*614. *Boloria frigga* (Thunberg, 1791)

Entomol. Sist. Ins. Svec. (2): 33-34.

**Original Combination:** *Papilio Frigga* *P[apilio]*. *n[ymphalis]*. *ph[aleratus]*.

**Type Locality:** "Lapponiae sylvis, locis uliginosis Salice Lapponum repletis. Liljeblad; Quenzel"; lectotype from "Sweden: Lappland."

**Types:** Lectotype in UZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 446.

= *maritima* Kardakoff, 1928

Entomol. Mitt. 17(4): 270, pl. 7, fig. 4.

**Original Combination:** *Argynnis frigga* *maritima*

**Type Locality:** "Primorye: Ternei Bay" [Russia]

**Types:** Location of type(s) not known.

= *helvenacius* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 102.

**Original Combination:** *B[oloria]*. *frigga* subsp. nova *helvenacius*

**Type Locality:** "Polar Urals" [Polar Ural, Komi Republic, Russia]

**Types:** Syntypes possibly in ZIN.

a. *Boloria frigga saga* (Staudinger, 1861)

Stettiner Entomol. Ztg. 22(10/12): 350, under no. 16.

**Original Combination:** [*Argynnis Frigga*] [var.] *Saga*

**Type Locality:** "Labrador" [Newfoundland and Labrador]

**Types:** Holotype in BMNH.

b. *Boloria frigga gibsoni* (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 92, no. 197d.

**Original Combination:** *Brenthis frigga* race *gibsoni*

**Type Locality:** "Barter Island, Northern Alaska"

**Types:** Syntypes in CNC; one figured by Gibson (1920), Rept. Can. Arctic Exped. 3(i): 57i, pl. 5, fig. 1 ♂ D.

Layberry, *et al.* (1998), Butts. Can.: 178, suggested that this may be a species-level taxon.

= *‡**alaskensis* (Lehmann, 1913)

*In:* Seitz, Grossschmett. Erde 5(173): 424; (178): pl. 87e, fig. [3] ♀ D.

**Original Combination:** [*Argynnis frigga*] fa. *alaskensis*

**Type Locality:** "nördöstlichen Alaska (69° 40' nördl. Breite, 141° westl. Länge)"

**Types:** One probable syntype in ZMUC, others may be in SMF.

Secondarily preoccupied by *Brenthis pales alaskensis* W. Holland, 1900, Entomol. News 11(3): 383, no. 6.

= *lehmanni* (W. Holland, 1928)

Ann. Carnegie Mus. 19(1): 44, no. 10.

**Original Combination:** *B[renthis]. frigga* var. *lehmanni* nom. nov.

Proposed to replace *Argynnis frigga* fa. *alaskensis* Lehmann, 1913, with the same data. According to Code Article 59.3, this permanently invalidates *alaskensis* since the name *gibsoni* has traditionally been used for this taxon.

c. ***Boloria frigga sagata*** (W. Barnes & Benjamin, 1923)

Can. Entomol. 55(6): 146.

**Original Combination:** *Brenthis frigga* race *sagata*

**Type Locality:** "Hall Valley, Colorado" [Park County]

**Types:** Holotype in USNM.

615. ***Boloria improba*** (Butler, 1877)

a. ***Boloria improba improba*** (Butler, 1877)

Entomol. Mon. Mag. 13(153): 206.

**Original Combination:** *Argynnis improba*

**Type Locality:** "between 67 1/2 and 68°...Winter Cove and Cambridge Bay" [Northwest Territories]

**Types:** Syntypes in BMNH.

b. ***Boloria improba youngi*** (W. Holland, 1900)

Entomol. News 11(3): 383-384, no. 9.

**Original Combination:** *B[renthis]. youngi*

**Type Locality:** "mountains between Forty-Mile and Mission Creeks, N. E. Alaska"

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 28 ♂ V.

Ferris (1984), Bull. Allyn Mus. (89): 1-2, suggested that this taxon represents an individual form, and therefore a synonym of *B. i. improba*.

c. ***Boloria improba nunatak*** Scott, 1998

Papilio (n.s.) 11: 3-4.

**Original Combination:** *Boloria improba nunatak*

**Type Locality:** "Torrens River, Alberta," presumably from the mountains nearby.

**Types:** Holotype in AMNH.

d. ***Boloria improba harryi*** (Ferris, 1984)

Bull. Allyn Mus. (89): 2-5, figs. 2 ♂ D, 3 ♂ V (holotype); 4 ♀ D, 5 ♀ V.

**Original Combination:** *Clossiana improba harryi*

**Type Locality:** "near the summit of Bears Ears Trail, 0.5 mi. (0.8 km) NW of Mt. Chauvenet, 11, 750' (3583m), Shoshone National Forest, Fremont Co., Wyoming" [Wind River Mountains]

**Types:** Holotype in MGCL.

e. ***Boloria improba acrocneuma*** Gall & Sperling, 1980

J. Lepid. Soc. 34(2): 231-236, figs. 1&7 ♂ D&V, 13 ♂ D, 16 ♂ V (holotype), 2&8 ♂ D&V, 3&9 ♂ D&V, 4&10 ♀ D&V, 5&11 ♀ D&V, 6&12 ♀ D&V, 19-21 ♂ genitalia.

**Original Combination:** *Boloria acrocneuma*

**Type Locality:** "Mt. Uncomphagre, 13.0 km NW of Lake City, Hinsdale Co., Colorado, elev. 4080-4140m"

**Types:** Holotype in YPM.

616. ***Boloria kriemhild*** (Strecker, 1879)

In: C. A. H. McCauley, Rept. San Juan Recon., Ind. Exec. Doc. House Rep. 3rd Sess. 45th Congr. 5(1)pt. 2(3), appendix SS: 1854, pl. 1, figs. 5 ♀ D, 6 ♀ V.

**Original Combination:** *Argynnis Kriemhild*

**Type Locality:** "Utah...Arizona...Rio Florida, Colorado"; lectotype from "Utah."

**Types:** Lectotype in FMNH, designated by Skinner (1914), Entomol. News 25(7): 324; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 74, figs. 1 ♂ D, 2 ♂ V.

= *laurenti* (Skinner, 1913)

Entomol. News 24(10): 450.

**Original Combination:** *Argynnis laurenti*

**Type Locality:** "Silver Lake (Brightons), Utah" [Salt Lake County]

**Types:** Syntypes (#7024) in ANSP; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 17 ♂ V.

The identity of this taxon was established by W. Barnes and McDunnough (1914), Entomol. News 25(7): 323-324.

= *luecki* (Reuss, 1923)(emended)

Soc. Entomol. 38(4): 14.

**Original Combination:** *Clossiana luecki*

**Type Locality:** "Utah, Nord-Amerika"

**Types:** Syntypes in Reuss collection.

617. ***Boloria epithore*** (W. H. Edwards, 1864)

a. ***Boloria epithore epithore*** (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2[4]: 501, 503-504, no. 5.

**Original Combination:** *Argynnis Epithore* Boisduval in lit.

**Type Locality:** "California"; neotype from "Saratoga, Santa Clara County, California."

**Types:** Neotype in CMNH, designated by Klots (1965), in: F. Brown, Trans. Am. Entomol. Soc. 91(3): 335, fig. 34a ♂ D&V.

= *epithore* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 58, no. 50.

**Original Combination:** *Argynnis Epithore*

**Type Locality:** "les hautes montagnes de l'est"; defined as "vic. of Santa Cruz Mtns., Santa Cruz County, California" by E. Perkins and Meyer (1973), Bull. Allyn Mus. (11): 4.

**Types:** Lectotype in CMNH, designated by E. Perkins and Meyer (1973), *ibid.*; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 335, fig. 34b ♂ D&V.

Preoccupied by *Argynnis epithore* W. H. Edwards, 1864, Proc. Entomol. Soc. Philad. 2(4): 503-504.

b. ***Boloria epithore sierra*** E. Perkins, 1973

*In:* E. Perkins and Meyer, Bull. Allyn Mus. (11): 10-11, pl. 1, figs. 1 ♂ D (holotype), 2 ♂ V, pl. 2, figs. 3 ♀ D, 4 ♀ V.

**Original Combination:** *Boloria epithore sierra*

**Type Locality:** "Sentinel Dome, Yosemite National Park, Mariposa County, California"

**Types:** Holotype in MGCL.

= *†"eldorado"* (Strand, 1915)

Arch. für Naturgesch. (A)80(11): 156.

**Original Combination:** *Brenthis epithore* cum ab. *eldorado* n. ab.

**Type Locality:** "Plumas Co....Eldorado Co." [California]

**Types:** Syntypes probably in DEL.

= *†"wawonae"* (Gunder, 1924)

Entomol. News 35(5): 156, pl. 2, fig. F ♂ D ("holotype").

**Original Combination:** *Brenthis epithore* ab. ♂ *wawonae*

**Type Locality:** "Wawona, Mariposa County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 26, fig. 10 ♂ D.

c. ***Boloria epithore chermocki*** E. Perkins & S. Perkins, 1966

J. Lepid. Soc. 20(2): 109-112, pl. 1, figs. 9 ♂ D, 10 ♂ V (holotype); pl. 2 figs. 11 ♀ D, 12 ♀ V.

**Original Combination:** *Boloria epithore chermocki*

**Type Locality:** "2.9 miles E of Dolph, Yamhill Co., Oregon"

**Types:** Holotype in LACM.

= *uslui* (Koçak, 1984)

Priamus 3(3): 96.

**Original Combination:** *Boloria epithore uslui*

Proposed to replace *Boloria epithore borealis* E. Perkins, 1973, with the same data (Code Article 60.3).

C. Guppy and J. Shepard (2001), Butts. B. C.: 290, determined this synonymy.

= *†borealis* E. Perkins, 1973

*In:* E. Perkins and Meyer, Bull. Allyn Mus. (11): 6-8, pl. 1, figs. 13 ♂ D (holotype); 14 ♂ V, pl. 2, figs. 15 ♀ D, 16 ♀ V.

**Original Combination:** *Boloria epithore borealis*

**Type Locality:** "Shingle Creek Road, Keremeos, British Columbia"

**Types:** Holotype in CNC.

Preoccupied by *Argynnis thore borealis* Staudinger, 1861, Stettiner Entomol. Ztg. 22(10-12): 351.

= *†"obscuripennis"* (Gunder, 1926)

Entomol. News 37(1): 7, no. 9, pl. 1, fig. 9 ♀ D (holotype).

**Original Combination:** *Brenthis epithore* ab. ♀ *obscuripennis*

**Type Locality:** "Chilcolin [*sic!*], British Columbia, Canada" [Chilcotin]

**Types:** "Holotype" in AMNH.

d. ***Boloria epithore sigridae*** (J. Shepard, 2001)

Butts. B. C.: 289-290, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Clossiana epithore sigridae*

**Type Locality:** "BC, St. Elias Mts., Tats Lake, 770 m" [British Columbia]

**Types:** Holotype in BCPM.

618. ***Boloria polaris*** (Boisduval, [1828])

a. ***Boloria polaris polaris*** (Boisduval, [1828])

Europ. Lepid. Ind. Meth: 15-16; figured by Boisduval [1833], Icon. Hist. Lépid. Europ. 1(10): pl. 20, figs. 1 ♂ D, 2 ♂ V, and (1836), Spec. gén. Lépid. 1: pl. 11, fig. 1 ♂ D&V.

**Original Combination:** *Argynnis Polarís*

**Type Locality:** "Cap Nord"; stated to be "cap Nord, c'est-à-dire l'extrémité de la Laponie norvégienne" by Duponchel [1832], *in:* Godart, Hist. Nat. Lepid. 1(Diurnes), Suppl. 1(6): 125-126, no. 44. [Finmark, Norway]

**Types:** Location of type(s) not known, possibly in BMNH or MNHP.

= *homeyeri* (Wocke, 1875)

*In:* Die Zweite Deutsche Nordpolarfahrt 2: 403.

**Original Combination:** *Argynnis Polarís* var. *Homeyeri*

**Type Locality:** "Gronland"; defined as "74° and 76° in Greenland" by Aurivillius (1889), Bih. Kongl. Svenska Vetenskaps-akad. Handl. 15(4) (1): 11.

**Types:** Location of type(s) not known.

= *gronlandica* ([Skinner], 1892)

Entomol. News 3(3): 49, nos. 9-10, pl. 2, figs. 9 ♀ D, 10 ♀ V (holotype).

**Original Combination:** *Argynnis chariclea* var. *gronlandica*

**Type Locality:** "Greenland" implied from plate caption; suggested to be "West Coast...McCornick Bay, Herbert Island and Disco...West Coast of Greenland" by Skinner and Mengel (1892), Proc. Acad. Nat. Sci. Philad. 44[5]: 157.



- Types:** Syntype (#7781) in ANSP.  
Masters (1972), Entomol. Rec. & J. Var. 84(7/8): 178, treated this as a subspecies-level taxon.
- = *americana* (Strand, 1905)  
Rept. 2nd Norweg. Arctic Exped. "Fram" 1898-1902 1(3): 10-11, no. 3.  
**Original Combination:** *Argynnis polaris* var. *americana*  
**Type Locality:** "Havnen, Rice Strait (Ellesmere Id.)...Havnefjorden (Jones Id.)...Gaasefjorden (Ellesmere Id.)...die Westseite von Gaasefjorden"  
**Types:** Type(s) probably in ZMHB.
- = *kurenzovi* Wyatt, 1961  
Z. wien. entomol. Ges. 46[72](7/8): 98-99, pl. 5, figs. 1 ♀ D, 2 ♀ V (syntype).  
**Original Combination:** *Boloria alberta kurenzovi*  
**Type Locality:** "Berge von Tschukotka, N. O. Sibirien, Geröll-zone" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in LNKD.
- = *digna* (Churkin, 2001)  
Helios 2: 97-98, pl. 8, figs. 4 ♂ D (holotype), 5 ♂ V, 6 ♀ D.  
**Original Combination:** *Clossiana polaris digna*  
**Type Locality:** "Russia, Wrangel Is., Neizvestnaya R. (middle stream)" [Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in DSM.
- b. ***Boloria polaris stellata*** Masters, 1972  
Entomol. Rec. & J. Var. 84(7/8): 177-178, pl. 11, fig. A ♂ D, B ♂ V (holotype), G ♀ D, H ♀ V.  
**Original Combination:** *Boloria Polaristella*  
**Type Locality:** "Churchill, Manitoba"  
**Types:** Holotype in AMNH.
619. ***Boloria alberta*** (W. H. Edwards, 1890)  
Can. Entomol. 22(6): 113-114; figured by W. H. Edwards (1894), Butts. N. Am. 3(15): pl. Argynnis 7, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Argynnis Alberta*  
**Type Locality:** "Laggan, Alberta...strictly above timberline, and not very near it either, though not at the highest points in the mountains"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.  
**Types:** Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 339, fig. 35 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 15, fig. 15 ♂ D.  
= "banffensis" (Gunder, 1932)  
Pan-Pac. Entomol. 8(3): 125.  
**Original Combination:** *Brenthis alberta* tr. f. *banffensis*  
**Type Locality:** "Banff, Alberta, Canada"  
**Types:** "Holotype" in AMNH.
620. ***Boloria astarte*** (E. Doubleday, [1847])  
a. ***Boloria astarte astarte*** (E. Doubleday, [1847])  
In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 5 [1847]; (1)(21): 181 (1848, corrected the name to *Argynnis astarte*).  
**Original Combination:** *Melitaea Astarte*  
**Type Locality:** "Rocky Mountains, North America"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.  
**Types:** Syntype (#45-136) in BMNH.  
C. Guppy and J. Shepard (2001), Butts. B. C.: 295-296, suggested that *astarte* is conspecific with *B. tritonia* (Böber, 1812), Mém. Soc. Moscou 3: 20-21, no. 6, pl. 1, figs. 1 ♂ D, 2 ♂ V; index: 320, an arrangement adopted by Gorbunov (2001), Butts. Russia Class.: 195-196. However, Pike (1981), J. Res. Lepid. 18(3): 162, and others, have questioned whether *distincta*, and by implication *tschukotkensis*, should be considered subspecies of *B. astarte*. Further study is needed  
= *victoria* (W. H. Edwards, 1891)  
Can. Entomol. 23(9): 198-199; figured by W. H. Edwards (1894), Butts. N. Am. 3(15): pl. Argynnis 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V (as *astarte*).  
**Original Combination:** *Argynnis Victoria*  
**Type Locality:** "Laggan, Alberta"; defined as "two mountains near Laggan, one of them three miles southwest, in the main range, the other a low smooth mountain directly north of Laggan" by W. H. Edwards (1894), Butts. N. Am. 3(15): [115-118]; subsequently interpreted to be "outliers of Mt. Temple and Mt. Richardson" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 341.  
**Types:** Holotype in CMNH, figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 340, fig. 36 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 18, fig. 15 ♂ V.
- b. ***Boloria astarte distincta*** (Gibson, 1920)  
Rept. Can. Arct. Exped. 3(i): 25i, 54i, pl. 4, fig. 12 ♀ V (holotype).  
**Original Combination:** *Brenthis distincta*  
**Type Locality:** "Harrington Creek, Yukon Territory, lat. 65° 05"  
**Types:** Holotype in CNC.
- c. ***Boloria astarte tschukotkensis*** Wyatt, 1961  
Zeit. Wiener Entomol. Ges. 46[72](7/8): 99, pl. 5, fig. 3 ♀ D, 4 ♀ V (holotype).  
**Original Combination:** *Boloria distincta tschukotkensis*  
**Type Locality:** "Berge von Tschukotka, N. O. Sibirien, Geröll-zone" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in LNKD.

- = *ershovi* Korshunov & Gorbunov, 1995  
Butts. Asiatic Russia: 108, under no. 211.  
**Original Combination:** *Clossiana astarte ershovi*  
**Type Locality:** "Khaptagai on the Lena River" [Sakha Republic, Russia]  
**Types:** Holotype in SZMN.
- = *suntara* Korshunov, 1998  
New descr. specif. Butts. Asiatic Russia 21-22.  
**Original Combination:** [*Clossiana*] *astarte suntara*  
**Type Locality:** "Suntar-Khayata Range, 180 km ESE Khandyga, upper Eastern Khandyga River, 233 km on the Khandyga to Magadan line, mountains at 1300-1500 m, Yakutia" [Sakha Republic, Russia]  
**Types:** Syntypes in SZMN.

freija group Gorbunov, 2001

Butts. Russia Class.: 199.

621. **Boloria freija** (Thunberg, 1791)

a. **Boloria freija freija** (Thunberg, 1791)

Entomol. Sist. Ins. Svec. (2): 34-36, pl. 2, figs. 14, [14a] ♂ D&V.

**Original Combination:** *Papilio Freija* P[apilio]. n[ymphalis]. ph[aleratus].

**Type Locality:** "Vestrobothnia juxta flumina locis locios graminosis D. Mag. Liljeblad...in Lapponia D. Mag. Quenzel"; lectotype labeled "Lapp. Liljeblad." [western Gulf of Bothnia and Lappland, Sweden]

**Types:** Lectotype in UZI, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 446.

= *freya* (Godart, 1819)

In: Enc. méth. 9(Ins.) (1): (254), 273, no. 37; cited many references to *freija*.

**Original Combination:** *Argynnis Freya*

Proposed to replace *Papilio freija* Thunberg, 1791, erroneously thought to be preoccupied, or possibly an unjustified emendation.

= *lapponica* (Esper, 1789)

Die Schmett. 1 (suppl.) (1) (3/4): 21-22, no. 187, pl. 97 (cont. 52), fig. 3 ♂ D&V.

**Original Combination:** P[apilio]. N[ymphalis]. Ph[alerata]. Dia Lapponica

**Type Locality:** "Der lapplandisch P. Dia." [Lappland]

**Types:** Location of type(s) not known, probably lost.

= *jakutensis* (Wnukowsky, 1927)

Mitt. Münchn. Entomol. Ges. 17(7-12): 70, no. 4.

**Original Combination:** *Argynnis (Brentis [sic]) freija jakutensis*

**Type Locality:** "Siberia septentrionalis-orientalis (Jakutsk)" [Yakutsk, Sakha Autonomous Republic, Russia]

**Types:** Syntypes in UTR.

= *zamolodchikova* (Churkin, 2001)

Helios 2: 99, pl. 8, figs. 10 ♂ D (holotype), 11 ♂ V, 12 ♀ D.

**Original Combination:** *Clossiana freija zamolodchikova*

**Type Locality:** "Russia, East Chukotka, 13 km SE Ioni L., Gilmimleviev R" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Holotype in DSM.

= *gunderi* (Harper, 1933)

Pan.-Pac. Entomol. 9(3): 99.

**Original Combination:** *Brenthis freija gunderi* new tr. fm.

**Type Locality:** "McCreary, Manitoba, Canada"

**Types:** "Holotype" in CAS.

b. **Boloria freija tarquinius** (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxxviii-lxix, no. 14.

**Original Combination:** [*Melitaea*] *Tarquinius*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N lat. and 91.52°-93.0° W long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Syntypes possibly in BMNH.

c. **Boloria freija browni** (Higgins, 1953)

Entomol. 86(9): 210, no. 9.

**Original Combination:** *Clossiana freija browni*

**Type Locality:** "Independance Pass, Pitkin Co." [Colorado]

**Types:** Holotype in AMNH.

622. **Boloria natazhati** (Gibson, 1920)

Troubridge and Wood (1990), J. Lepid. Soc. 44(3): 180-182, determined that this is a species-level taxon, which was revised by J. Shepard *et al.* (1998), Syst. W. N. Am. Butts. (60): 731-736.

a. **Boloria natazhati natazhati** (Gibson, 1920)

Rept. Can. Arctic Exped. 3(i): 211-221, 521, 561, pl. 3, figs. 6 ♂ V (holotype), 12 ♀ D; pl. 5, fig. 6 ♂ D (holotype).

**Original Combination:** *Brenthis natazhati*

**Type Locality:** "141st meridian, north of mount Natazhati, international boundary survey, elevation 8,600 feet" [southern



Yukon Territory]

**Types:** Holotype in CNC.

- b. ***Boloria natazhati nabokovi*** D. Stallings & Turner, 1947  
Can. Entomol. 78(7/8): 134-135.

**Original Combination:** *Boloria freija nabokovi*

**Type Locality:** "Alaska Military Highway...Mile 102, North of Summit 2, Ravine, Elevation 6000 ft...British Columbia"; defined as "the Sentinel Range of the Rocky Mts., B. C., at 1830 m elevation" by Troubridge and Wood (1990), J. Lepid. Soc. 44(3): 186; suggested to be "a ravine north of Summit Lake, mile 392 [now km. 621.7] Alaska Highway, British Columbia, Canada" by J. Shepard and Kondla (1993), Pan-Pac. Entomol. 69(3): 273.

**Types:** Holotype (#27642) in MCZ.

- c. ***Boloria natazhati bankslandia*** J. Shepard, 1998

Syst. W. N. Am. Butts. (60): 732, figs. 5 ♂ D, 6 ♂ V.

**Original Combination:** *Boloria natazhati bankslandia*

**Type Locality:** "N.W.T., Victoria Is. 71°17'N, 114°W" [Northwest Territories]

**Types:** Holotype in CNC.

euphrosyne group Gorbunov, 2001

Butts. Russia Class.: 192.

- \*623. ***Boloria chariclea*** (Schneider, 1794)

Neu. Mag. f. Leibhaber Entomol. 5: 588-589.

**Original Combination:** *Papilio Chariclea*

**Type Locality:** "Lapland" implied from the title of paper.

**Types:** Location of type(s) not known, probably lost.

The arrangement of North American taxa in this group follows Pike (1981), J. Res. Lepid. 18(3): 156, and J. Shepard (1998), Syst. W. N. Am. Butts. (59): 727-730. It is probable that this assemblage in North America actually consists of two species, but it is not possible to diagnose these at present.

- a. ***Boloria chariclea montinus*** (Scudder, 1863)

Proc. Essex Inst. 3: 166, no. 32; redescribed and figured by Scudder (1863), Boston J. Nat. Hist. 7(4): 626-628, pl. 14, fig. 1 ♂ D&V.

**Original Combination:** *Argynnis Montinus*

**Type Locality:** "the lower half of barren summits of the White Mountains, N[ew]. H[ampshire]."; defined as "summit of Mount Madison, the head of Tuckerman's Ravine, and a short distance above the Ledge, (all, it will be noticed, within the subalpine region)" by Scudder (1863), Boston J. Nat. Hist. 7(4): 618, 628.

**Types:** Syntypes probably in MCZ.

- b. ***Boloria chariclea boisduvalii*** (Duponchel, [1832])

In: Godart, Hist. Nat. Lepid. 1 (Diurnes), Suppl. 1(6): 127-128, no. 45, pl. 20, no. 4 ♂ V.

**Original Combination:** *Argynnis Boisduvalii*

**Type Locality:** "les contrées les septentrionales de l'Europe"; suggested to be "probably Labrador" by Klots (1951), Field Guide Butts. N. Am.: 90.

**Types:** Type(s) may be in MNHP or BMNH.

Both Duponchel [1832] *ibid.*, and Boisduval [1833], Icon. Hist. Lépid. Europ. 1(10): 98, pl. 20, figs. 5 ♂ D, 6 ♂ V, cited "M. Sommer" as the source of the specimens described. Sommer has been noted as a source of many butterflies from Labrador (e.g., Boisduval and Le Conte [1830], Hist. Lépid. Amér. sept. (8): 66-67, Staudinger (1857), Stettiner Entomol. Ztg. 18(7-9): 300-301, and Hemming (1937), Hübner 2: 123). Scudder (1868), Proc. Boston Soc. Nat. Hist. 11: 33, and Aurivillius (1890), Bih. K. svenska VetenskAkad. Handl. 15(4)(1): 9-10, fig. 1 VHW, referred to samples from Labrador as *boisduvalii*. Examination of the type(s), if extant, is needed; if there are no syntypes, the designation of a neotype may be required.

= # "labradorensis" (Gunder, 1928)

Can. Entomol. 60(7): 163, pl. A, figs. 5, 5a ("holotype").

**Original Combination:** *Brenthis chariclea* race *oenone* tr. f. *labradorensis*

**Type Locality:** "Labrador" [Newfoundland and Labrador]

**Types:** "Holotype" in USNM.

# "oenone" (Scudder, 1875)

Proc. Boston Soc. Nat. Hist. 17(3): [297]-299.

**Original Combination:** *Arg[ynnis]*. *Oenone*

This name was listed in the synonymy of *chariclea* Schneider, 1794, without a description or indication; a *nomen nudum*.

- c. ***Boloria chariclea arctica*** (Zetterstedt, [1839])

Ins. Lappon. (5): col. 899, no. 18.

**Original Combination:** *A[rgynnis]*. *arctica*

**Type locality:** "Groenlandia"

**Types:** Location of type(s) not known, possibly lost.

= # *tullia* O. Fabricius, 1780

Fauna Groenl.: 192-193, no. 143.

**Original Combination:** *Papilio Tullia*

**Type Locality:** "Groenl. Sullerneke...Kugluisak" [Greenland]

**Types:** Location of type(s) not known, probably lost.



- Preoccupied by *Papilio tullia* Müller, 1764, Fauna Ins. Fridrichsdal.: 36.  
 = *obscurata* (M'Lachlan, 1878)  
 J. Linn. Soc. Lond., Zool. 14(74): 110.  
**Original Combination:** *A[rgynnis]*. *Chariclea*, var. *obscurata*  
**Type Locality:** "81° 41' N"; holotype from "Grinnell Land, W. side of Smith Sound 81° 45' N." [Ellesmere Island, Nunavut]  
**Types:** Holotype in BMNH.
- d. ***Boloria chariclea grandis*** (W. Barnes & Benjamin, 1916)  
 Can. Entomol. 48(7): 223.  
**Original Combination:** *Brenthis chariclea grandis*  
**Type Locality:** "Hymers, Ont." [Ontario]  
**Types:** Syntypes in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, figs. 7 ♂ D, 8 ♀ V.
- e. ***Boloria chariclea butleri*** (W. H. Edwards, 1883)  
 Can. Entomol. 15(2): 32-33.  
**Original Combination:** *Argynnis Butleri*  
**Type Locality:** "Cape Thomson, North-west America...Kotzebue Sound"; lectotype from "Cape Thompson." [Alaska]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 18 ♂ V, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 346, fig. 38 ♂ D&V.  
 = *tshuktsha* Korshunov, 1998  
 New descr. specif. Butts. Asiatic Russia: 21.  
**Original Combination:** *Clossiana chariclea tshuktsha*  
**Type Locality:** "mouth of the Chaun River, 100 km south of Pevek, Chukotka" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]  
**Types:** Holotype in the SZMN.
- f. ***Boloria chariclea rainieri*** (W. Barnes & McDunnough, 1913)  
 Contr. Nat. Hist. Lepid. N. Am. 2(3): 96-97, pl. 2, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V.  
**Original Combination:** *B[renthis]*. *chariclea rainieri*  
**Type Locality:** "Mt. Ranier [*sic*], Wash....(6-7000 ft)"; the figure captions added "Paradise Valley" [Mt. Rainier, Pierce County].  
**Types:** Syntypes in USNM and LACM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, figs. 9 ♂ D, 10 ♀ V.  
 C. Guppy and Kondla (2002), J. Lepid. Soc. 56(3): 181, suggested that this name be emended to "*ranieri*" since "Mt. Ranier" was misspelled in the text in the original description. The name as given in the description heading was derived from the correct spelling of the name of the mountain, and needs no emendation (Code Article 32.5.1).
- g. ***Boloria chariclea ingens*** (W. Barnes & McDunnough, 1918)  
 Contr. Nat. Hist. Lepid. N. Am. 4(2): 71, 180, pl. 11, figs. 5 ♂ D (holotype), 6 ♂ V.  
**Original Combination:** *Brenthis helena ingens*  
**Type Locality:** "Yellowstone Park" [Wyoming].  
**Types:** Holotype in USNM.  
 = *♯martini* (Gunder, 1934)  
 Can. Entomol. 66(6): 127-128.  
**Original Combination:** *Brenthis helena ingens* tr. f. *martini*  
**Type Locality:** "Teton trail, Teton Mts., Teton County, Wyoming (just south of the *ingens* type locality)"  
**Types:** "Holotype" in AMNH.
- h. ***Boloria chariclea helena*** (W. H. Edwards, 1871)  
 Trans. Am. Entomol. Soc. 3(3/4): 266, 268, no. 3.  
**Original Combination:** *Argynnis Helena*  
**Type Locality:** "Colorado"; suggested to be "region of the range north and west of Fairplay and about Twin Lakes", probably "Mt. Elbert, Mosquito Pass, Mt. Lincoln and Hoosier Pass" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 160; defined as "Mosquito Pass, Lake-Park Counties, Colorado" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 342-343.  
**Types:** Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 344, fig. 37 ♂ D&V.  
 = *sangredecristo* Scott, 1981  
 Papilio (n.s.) 1: 5.  
**Original Combination:** *Boloria titania sangredecristo*  
**Type Locality:** "Hermit Pass, Sangre de Cristo Mts., Custer Co., Colorado"  
**Types:** Holotype in LACM.  
 Scott (1986), Butts. N. Am.: 319, determined this synonymy.

Subtribe **Argynnina** Swainson, 1833

Genus **Speyeria** Scudder, 1872

- 4th Ann. Rept. Peabody Acad. Sci. (1871): 44. Type-species: *Papilio idalia* Drury, 1773, Ill. Nat. Hist. 1: 25, pl. 13, figs. 1-3 (1770); 2: index (1773), by original designation.  
 = *Semnopsyche* Scudder, 1875  
 Bull. Buffalo Soc. Nat. Sci. 2(4): 238, 258-259, no. 44. Type-species: *Papilio diana*, Cramer, 1777, Uitl. Kapellen 2(9): 4 pl. 98, figs. D, E; 2(16): 148 (index), by original designation. Grey (1989), J. Lepid. Soc. 43(1): 1-2, determined this synonymy.  
 = *Neoacidalia* Reuss, 1926  
 Dtsche. Entomol. Z. 1926(1): 69. Type-species: *Papilio cybele* Fabricius, 1775, Syst. Entomol.: 516, no. 311, by original designation.

624. *Speyeria diana* (Cramer, 1777)  
Util. Kapellen 2(9): 4, pl. 98, figs. D ♂ D, E ♂ V; (16): 148 (index).  
**Original Combination:** *Pap[ilio]*. *Nymph[alis]*. *Phaler[ata]*. *Diana*  
**Type Locality:** "Virginien" "Virginie" on page 3; defined as "Jamestown, James City County, Virginia" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.  
**Types:** Holotype in BMNH.
625. *Speyeria cybele* (Fabricius, 1775)  
a. *Speyeria cybele cybele* (Fabricius, 1775)  
Syst. Entomol.: 516, no. 311.  
**Original Combination:** *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Cybele*  
**Type Locality:** "America"; defined as "New York City, New York County, New York" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.  
**Types:** Holotype in BMNH.  
= *‡daphnis* (Cramer, 1775)  
Util. Kapellen 1(5): 89, pl. 57, figs. E ♂ D, F ♂ V; (8): 152 (index).  
**Original Combination:** *Pap[ilio]*. *Nymph[alis]*. *Phaler[ata]*. *Daphnis*  
**Type Locality:** "ze te Nieuw-York en te Jamaika" "Nouvelle York & la Jamaïque"; neotype from "New York City, New York County, New York."  
**Types:** Neotype in BMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6; this is also the holotype of *Papilio cybele*.  
Preoccupied by *Papilio daphnis* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 182.  
= *‡baal* (Strecker, 1878)  
Butts. & Moths N. Am., Comp. Syn. Cat.: 111, no. 193a.  
**Original Combination:** [*Argynnis Cybele*] ab. a. ♂ *Baal*  
**Type Locality:** "Ohio"; defined as "Toledo, Lucas County, Ohio" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 6.  
**Types:** "Holotype" in FMNH.
- b. *Speyeria cybele novascotiae* (McDunnough, 1935)  
Can. Entomol. 67(1): 18-19.  
**Original Combination:** *Argynnis cybele novascotiae*  
**Type Locality:** "White Point Beach, Queens Co., N. S." [Nova Scotia]  
**Types:** Holotype (#3859) in CNC.
- c. *Speyeria cybele krautwurmi* (W. Holland, 1931)  
Ann. Carnegie Mus. 20(2): 255-256.  
**Original Combination:** *Argynnis cybele* var. *krautwurmi*  
**Type Locality:** "Les Cheneaux, Upper Peninsula of Michigan" [Mackinac County]  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 2 ♀ D.
- d. *Speyeria cybele pseudocarpenteri* (F. Chermock & R. Chermock, 1940)  
Can. Entomol. 72(4): 82.  
**Original Combination:** *Argynnis cybele pseudocarpenteri*  
**Type Locality:** "Sand Ridge, Manitoba"  
**Types:** Holotype (No. 4369) in CNC.
- e. *Speyeria cybele carpenterii* (W. H. Edwards, 1876)  
Trans. Am. Entomol. Soc. 5(3/4): 204-205; figured by W. H. Edwards (1889), Butts. N. Am. 3(8): pl. Argynnis 11, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Carpenterii*  
**Type Locality:** "New Mexico, above timber line"; defined as "Taos Peak, about 12,000 to 13,000 feet elevation" by W. H. Edwards (1889), Butts. N. Am. 3(8): [138]; lectotype from "Taos Mtn N. M." [Taos Peak, Taos County, New Mexico]  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 7; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 5 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 239, fig. 1 ♂ D&V.
- f. *Speyeria cybele charlottii* (W. Barnes, 1897)  
Can. Entomol. 29(2): 39-40.  
**Original Combination:** *Argynnis Charlottii*  
**Type Locality:** "Glenwood Springs, Colo." [Garfield County, Colorado]  
**Types:** Holotype in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 1 ♀ D.
- g. *Speyeria cybele letona* dos Passos & Grey, 1945  
Am. Mus. Novit. (1297): 1-2, figs. 3 ♂ D, 4 ♂ V (holotype).  
**Original Combination:** *Speyeria cybele letona*  
**Type Locality:** "City Creek Canyon, Salt Lake City, Utah, 4500 feet" [Salt Lake County]  
**Types:** Holotype in AMNH.
- h. *Speyeria cybele leto* (Behr, 1862)  
Proc. Calif. Acad. Sci. 2([sig.]12): 173, no. 3.  
**Original Combination:** *Argynnis Leto*  
**Type Locality:** "California" implied from title of paper, "peculiar to the western slope" from the description; neotype from "Near Carson City, Ormsby County, Nevada." [Ormsby County no longer exists]  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 7-8; figured by W. Holland (1898), Butt. Book: pl. 9, fig. 5 ♂ D, and J. Emmel *et al.*

- (1998), Syst. W. N. Am. Butts. (6): 109, figs. 1 ♂ D, 2 ♂ V.  
 = *letis* (W. G. Wright, 1905)  
 Butts. W. Coast: 52, no. 111; 130, no. 111, pl. 12, fig. 111 ♂ D (holotype).  
**Original Combination:** [*Argynnis Leto* var.] *Letis*; *Argynnis Letis* n. v.  
**Type Locality:** "Northern California" "Sisson, Cal." [Mount Shasta City, Siskiyou County, California]  
**Types:** Holotype (#4289) in CAS.
- = *valesinoidesalba* (Reuss, [1926]) (emended)  
 Dtsche. Entomol. Z. 1926(1): 69.  
**Original Combination:** [*Acidalia Semnopsyche*] *leto valesinoides-alba*  
**Type Locality:** Not stated.  
**Types:** Holotype in ZMHB.
- = ♀"lethe" (Gunder, 1934)  
 Can. Entomol. 66(6): 125.  
**Original Combination:** *Argynnis leto* tr. f. *lethe*  
**Type Locality:** "Big Horn Mts., Wyoming"  
**Types:** "Holotype" in AMNH.
- i. ***Speyeria cybele pugetensis*** F. Chernock & Frechin, 1947  
 Pan-Pac. Entomol. 23(3): 111-112.  
**Original Combination:** *Speyeria cybele pugetensis*  
**Type Locality:** "Stinson Creek, near Belfair, Mason County, Wash." [Washington]  
**Types:** Holotype in AMNH.
- j. ***Speyeria cybele eileenae*** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (12): 144, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.  
**Original Combination:** *Speyeria cybele eileenae*  
**Type Locality:** "California: Humboldt County; Bear River Ridge Road, 0 to 5 road miles E of junction of Wildcat Road, 7 air miles SE of Ferndale, 2300' elevation"  
**Types:** Holotype in LACM.
626. ***Speyeria aphrodite*** (Fabricius, 1787)
- a. ***Speyeria aphrodite cullasaja*** Gatrell, 1998  
 Tax. Rep. Int. Lepid. Surv. 1(3): 2, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.  
**Original Combination:** *Speyeria aphrodite cullasaja*  
**Type Locality:** "trail to Scaly Mountain, 4200', Macon Co., North Carolina"  
**Types:** Holotype in MGCL.
- b. ***Speyeria aphrodite aphrodite*** (Fabricius, 1787)  
 Mantissa Ins. 2: 62, no. 590.  
**Original Combination:** *P[apilio]. N[ymphalis]. P[halaratus]. Aphrodite*  
**Type Locality:** "America meridionali. Dom. Boeber"; neotype from "New York City, New York County, New York."  
**Types:** Type(s) lost; neotype in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8.
- = ♀"bartschi" (Reiff, 1910)  
 Psyche 17(6): 252-255, pl. 13, fig. 1 ♀ D&V.  
**Original Combination:** *Argynnis cybele* forma *Bartschi*  
**Type Locality:** "in West Roxbury, Mass." [Suffolk County, Massachusetts]  
**Types:** "Holotype" in MCZ.  
 The text clearly indicates that this taxon was described as an individual variant.
- = ♀"bakeri" (A. Clark, 1932)  
 Bull. U. S. Nat. Mus. (157): 276, pl. 19, figs. 1 ♂ D, 2 ♂ V ("holotype").  
**Original Combination:** *Argynnis aphrodite* ab. *bakeri*  
**Type Locality:** "Waynesburg, Ohio" [Stark County]  
**Types:** "Holotype" in USNM.  
 This name was proposed (as *Dryas aphrodite bakeri*) by A. Clark, 1927, Ann. Assoc. Am. Geogr. 17(3): 126, without a description; a *nomen nudum*.
- = ♀"hughi" (A. Clark & L. Clark, 1951)  
 Smithsonian Misc. Coll. 116(7): 60-61.  
**Original Combination:** [*Speyeria aphrodite*] ab. *hughi*  
**Type Locality:** not stated in the original description; defined as "from a single bog in Essex, Mass." by A. Clark (1927), Ann. Assoc. Am. Geogr. 17(3): 126, where the name is a *nomen nudum*. [Essex County, Massachusetts]  
**Types:** "Holotype" probably in USNM.
- c. ***Speyeria aphrodite alcestis*** (W. H. Edwards, [1877])  
 Trans. Am. Entomol. Soc. 5(3/4): 289-291; figured by W. H. Edwards (1890), Butts. N. Am. 3(10): pl. Argynnis 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Alcestis*  
**Type Locality:** "Northern Illinois, Iowa and Colorado"; defined as "Galena, Jo Davies County, Illinois" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 8; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 241, fig. 2 ♀ D&V.
- = ♀"suffusa" (Wolcott, 1916)  
 Entomol. News 27(3): 97-98, pl. 4, fig. 5 ♂ D ("holotype").



**Original Combination:** *Argynnis alceste* n. aberr. *suffusa*

**Type Locality:** "bog south of Grand Rapids, Michigan" [Kent County]

**Types:** "Holotype" in OSU.

d. **Speyeria aphrodite ethne** (Hemming, 1933)

Entomol. 66(12)[847]: 276, no. 10.

**Original Combination:** *Argynnis ethne*

Proposed to replace *Argynnis cypris* W. H. Edwards, 1886, with the same data (Code Article 60.3).

= *cypris* (W. H. Edwards, 1886)

Can. Entomol. 18(4): 62-64, no. 2.

**Original Combination:** *Argynnis cypris*

**Type Locality:** "Arizona to Montana...Colorado...So. Colorado...Arizona...Colorado"; defined as "Bighorn, Treasure County, Montana" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; suggested to be "Big Horn Mountains, near Sheridan, Wyoming" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 245. [Sheridan County]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; figured by W. Holland (1898), Butt. Book: pl. 12, fig. 3 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 244, fig. 3 ♂ D&V.

Preoccupied by *Argynnis cypris* Meigen, [1828], Syst. Besch. Europ. Schmett. 1(2): 59-60, no. 13.

e. **Speyeria aphrodite byblis** (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 91, no. 157d.

**Original Combination:** *Dryas aphrodite* race *byblis*

**Type Locality:** "White Mts., Ariz." [Arizona]

**Types:** Holotype in USNM.

f. **Speyeria aphrodite columbia** (Hy. Edwards, 1877)

Pac. Coast Lepid. (26): [1].

**Original Combination:** *Argynnis Columbia*

**Type Locality:** "Lahache, near the Alaskan border of British Columbia"; further defined as "Lakes Lahache and Quesnelle, British Columbia" by W. H. Edwards [1878], Field & Forest 3(6): 102-103.

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9; figured by W. Holland (1898), Butt. Book: pl. 14, fig. 3 ♂ D.

g. **Speyeria aphrodite whitehousei** (Gunder, 1932)

Can. Entomol. 64(12): 279-280.

**Original Combination:** *Argynnis whitehousei*

**Type Locality:** "Jaffray, B. C." [British Columbia]

**Types:** Holotype in AMNH.

h. **Speyeria aphrodite manitoba** (F. Chermock & R. Chermock, 1940)

Can. Entomol. 72(4): 83.

**Original Combination:** *Argynnis manitoba*

**Type Locality:** "Sand Ridge, Manitoba"

**Types:** Holotype (#5129) in CNC.

= *mayae* dos Passos & Grey, 1947

Am. Mus. Novit. (1370): 8.

**Original Combination:** *Speyeria* (*Speyeria*) *aphrodite mayae*

dos Passos and Grey adopted *Argynnis aphrodite cypris* tr. fm. *mayae* Gunder, 1932, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *mayae* (Gunder, 1932)

Can. Entomol. 64(12): 279.

**Original Combination:** *Argynnis aphrodite cypris* tr. f. *mayae*

**Type Locality:** "Sand Ridge, Bener Dam Lake, near Kelwood, Man., Can." [Manitoba]

**Types:** "Holotype" in AMNH.

i. **Speyeria aphrodite winni** (Gunder, 1932)

Can. Entomol. 64(12): 278-279.

**Original Combination:** *Argynnis aphrodite* race *winni*

**Type Locality:** "St. Calixte de Kilkenny, Que. (about 40 miles from Montreal)" [Quebec]

**Types:** Holotype in AMNH.

627. **Speyeria idalia** (Drury, 1773)

a. **Speyeria idalia idalia** (Drury, 1773)

Illustr. Nat. Hist. 1: 25, pl. 13, figs. 1 ♀ D, 2 ♂ D, 3 ♀ V (1770); 2: index (1773, name given).

**Original Combination:** *Nym[phalis]*. *Pha[eratus]*. *Idalia*

**Type Locality:** "New York"; neotype from "New York City, New York County, New York", labeled "West Farms, New York City."

**Types:** Neotype in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9.

= *astarte* (J. Fisher, [1859])

Proc. Acad. Nat. Sci. Philad. [10](13): 179-180, pl. 2 ♀ D&V.

**Original Combination:** *Argynnis astarte*

**Type Locality:** "Nova Caesarea...New Jersey...Succasunna Plains near Schooley's Mountain, in Morris Co."

**Types:** Holotype in FMNH.

Preoccupied by *Argynnis astarte* E. Doubleday, 1848, in: Gen. diurn. Lepid. (1)(21): 181.

= *ashtaroth* (J. Fisher, [1860])

Proc. Acad. Nat. Sci. Philad. [11](27): 352.

- Original Combination:** *Argynnis Ashtaroth*  
 Proposed to replace *Argynnis astarte* J. Fisher, [1859], with the same data (Code Article 60.3).  
 = *†*"infumata" (Oberthür, 1912)  
 Études Lépid. Comp. 6: 315, pl. 104, fig. 969 ♂ D&V.  
**Original Combination:** *Argynnis Idalia-Infumata*  
**Type Locality:** "Newark, N. J." [Essex County, New Jersey]  
**Types:** "Holotype" in USNM.
- = *†*"dolli" (Gunder, 1927)  
 Can. Entomol. 59(12): 286, no. 20, pl. B, figs. 20 ♀ D, 20b ♀ V ("holotype").  
**Original Combination:** *Argynnis idalia* tr. f. *dolli*  
**Type Locality:** "Richmond Hill, Long Island, N. Y." [Queens County, New York]  
**Types:** "Holotype" in USNM (ex Brooklyn Museum).
- b. **Speyeria idalia occidentalis** B. Williams, 2002  
 J. Lepid. Soc. 55(4): 146-147, fig. 2 upper left ♂ V, lower left ♀ V.  
**Original Combination:** *Speyeria idalia occidentalis*  
**Type Locality:** "1 mile S.E. of Crete, IL." [Will County, Illinois]  
**Types:** Holotype in INHS.  
 = *†*"pallida" (Eisner, 1942)  
 Zool. Meded. 24(1/2): 124.  
**Original combination:** *Argynnis idalia* f. *pallida*  
**Type Locality:** "Decorah, Iowa" [Winneshek County]  
**Types:** "Holotype" in RMNH.
628. **Speyeria nokomis** (W. H. Edwards, 1862)
- a. **Speyeria nokomis coerulea** (W. Holland, 1900)  
 Entomol. News 10(11): 332-333.  
**Original Combination:** *Argynnis nitocris* var. *coerulea*  
**Type Locality:** "State of Chihuahua, Mexico...at the head of the Rio Piedras Verdes, in Chihuahua, at an elevation of from 7,100 to 7,300 feet above sea level in the Sierra Madre region"  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 55, fig. 3 ♀ V.  
 b. **Speyeria nokomis nitocris** (W. H. Edwards, 1874)  
 Trans. Am. Entomol. Soc. 5(1): 15-16; figured by W. H. Edwards (1887), Butts. N. Am. 3(1): pl. Argynnis 1, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Nitocris*  
**Type Locality:** "White Mountains, Arizona"  
**Types:** Holotype in CMNH, designated as lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10, but determined to be the holotype by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 256, fig. 5 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 13, fig. 4 ♂ D.  
 c. **Speyeria nokomis nokomis** (W. H. Edwards, 1862)  
 Proc. Acad. Nat. Sci. Philad. 14(5): 221-222, no. 1.  
**Original Combination:** *Argynnis Nokomis*  
**Type Locality:** "Rocky Mountains and mountains of California"; suggested to be "probably east of Ft. Apache, along the East Fork of the White River, Apache Co., Arizona" by Ferris and M. Fisher (1971), J. Lepid. Soc. 25(1): 47. The neotype is from "Sneffels Mts Ouray Co. Col." and Grey (1989), J. Lepid. Soc. 43(1): 2-3, corroborated the occurrence of this species near there. [Mount Sneffels, Colorado]  
**Types:** Neotype (#36195) in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 9-10; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 248, fig. 4 ♂ D&V.  
*S. nokomis* occurred along the Uncompaghe River, near Ridgway, Ouray County, at least through the 1980's (A. Warren, pers. comm. 2006).  
 = *nigrocaerulea* (W. Cockerell & T. Cockerell, 1900)  
 Entomol. News 11(10): 622; figured by W. Cockerell and T. Cockerell (1902), Birds & Nature: unnumbered plate.  
**Original Combination:** *Argynnis nitocris* var. *nigrocaerulea*  
**Type Locality:** "Sapello Canon, Beulah, New Mexico" [San Miguel County]  
**Types:** Holotype in USNM.  
 = *valesinoidesalba* (Reuss, [1926]) (emended)  
 Dtsche. Entomol. Z. 1926(1): 69.  
**Original Combination:** [*Acidalia Semnopsyche*] *nokomis valesinoides-alba*  
**Type Locality:** Not stated.  
**Types:** Holotype in ZMHB.  
 It is impossible at this time to accurately place this taxon in the synonymy of *S. nokomis*.  
 = *†*"rufescens" (T. Cockerell, 1909)  
 Entomol. Rec. & J. Var. 21(7/8): 186.  
**Original Combination:** *Argynnis nitocris* var. *nigrocaerulea* [sic] ab. *rufescens*  
**Type Locality:** "At Beulah, in the Sapello Cañon" [San Miguel County, New Mexico]  
**Types:** "Holotype" in USNM.
- d. **Speyeria nokomis apacheana** (Skinner, 1918)  
 Entomol. News 29(2): 67-68; cited W. H. Edwards (1868), Butts. N. Am. [1](1): pl. Argynnis 4, figs. 1 ♂ D, 2 ♂ V (lectotype),



3 ♀ D, 4 ♀ V (as *Argynnis nokomis*).

**Original Combination:** *Argynnis apacheana*

**Type Locality:** "Arizona"; suggested to be "mountains west of Camp Independence" by F. Brown [1958], J. N. Y. Entomol. Soc. 65(3/4): 228-229; defined as "vicinity of Independence, Inyo Co., California" by F. Brown (1983), J. Lepid. Soc. 37(1): 79-80. [Inyo County]

**Types:** Lectotype (#7031) in ANSP, designated by F. Brown (1983), J. Lepid. Soc. 37(1): 79.

= ♀ "hermosa" (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(1): 3-4.

**Original Combination:** *Argynnis apacheana* aberration *hermosa*

**Type Locality:** "Round Valley, Inyo County, California"

**Types:** "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 23, fig. 4 ♂ D.

e. ***Speyeria nokomis carsonensis*** Austin, 1998

Syst. W. N. Am. Butts. (46): 573-574, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Speyeria nokomis carsonensis*

**Type Locality:** "Nevada: Douglas County; Carson Valley, Scossa Ranch, Nevada state route 206, 3.6 miles south of Nevada state route 207, 1463 m, T12N R19E S26 on USGS Freel Peak, Calif.-Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

629. ***Speyeria edwardsii*** (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6[1]: 137-139.

**Original Combination:** *Argynnis Edwardsii*

**Type Locality:** "California; Pikes Peak, Colorado Territory...Washington, D. C.?...Rocky Mountains...near Empire City, Colorado Territory, in the heart of the mountains only"; defined as "Pike's Peak, Teller County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10; subsequently defined as "Empire, Clear Creek County, Colorado" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 257.

**Types:** Lectotype in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 10.

= *montana* (Reuss, 1926)

Dtsche. Entomol. Z. 1926(5): 439; cited Reuss (1922), Arch. Naturgesch. 87A(11): 205.

**Original Combination:** *A[cidalia]. edwardsi montana*

**Type Locality:** "Montana"

**Types:** Holotype in ZMHB.

= ♀ "edonis" (Gunder, 1934)

Can. Entomol. 66(6): 125.

**Original Combination:** *Argynnis edwardsii* tr. f. *edonis*

**Type Locality:** "Beaver City, Larimer County, Colorado (10-12,000 ft.)"

**Types:** "Holotype" in AMNH.

630. ***Speyeria coronis*** (Behr, 1864)

a. ***Speyeria coronis semiramis*** (W. H. Edwards, 1886)

Can. Entomol. 18(4): 61-62, no. 1.

**Original Combination:** *Argynnis Semiramis*

**Type Locality:** "San Bernardino, California" [San Bernardino County]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 11; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 261, fig. 6 ♂ D&V.

= ♀ "bernardensis" (Gunder, 1933)

Can. Entomol. 65(8): 172-173.

**Original Combination:** *Argynnis semiramis* tr. f. *bernardensis*

**Type Locality:** "Camp Wasew[a]gan for Boy Scouts, San Bernardino Mts., San Bernardino Co., Calif." [California]

**Types:** "Holotype" in AMNH.

b. ***Speyeria coronis hennei*** (Gunder, 1934)

Can. Entomol. 66(6): 126-127.

**Original Combination:** *Argynnis hennæ*

**Type Locality:** "near summit, elevation 7700 ft., Mt. Pinos, Frazier Mountain Park, Santa Barbara Nat. Forest, Ventura Co., Calif." [California]

**Types:** Holotype in AMNH.

c. ***Speyeria coronis coronis*** (Behr, 1864)

In: W. H. Edwards, Proc. Entomol. Soc. Philad. 3[3]: 435, no. 2; figured by W. H. Edwards (1868), Butts. N. Am. [1](8): pl. Argynnis 5, figs. 3 ♀ D, 4 ♀ V (as *nevadensis*), and (1887), Butts. N. Am. 3(2): pl. Argynnis 14, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V (as *nevadensis*).

**Original Combination:** *Argynnis Coronis*

**Type Locality:** "California" implied from the title of the paper; defined as "Gilroy, [Santa Clara County] California" by W. H. Edwards (1887), Butts. N. Am. 3(2): [98]; subsequently defined as "Alma, Santa Clara County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 11, in error.

**Types:** Neotype in CMNH; this specimen was first designated as lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 11, but subsequently determined not to be a syntype and redesignated as neotype by dos Passos and Grey (1956), Trans. Am. Entomol. Soc. 91(3): 353; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts.: 109, figs. 4 ♂ D, 5 ♂ V.

Behr (1862), Proc. Calif. Acad. Sci. 2([sig.] 12): 173, no. 2, discussed this species without naming it.

= *californica* (Skinner, 1917)

Entomol. News 28(7): 328; cited W. H. Edwards (1887), Butts. N. Am. 3(2): pl. Argynnis 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀



V (as *coronis*).

**Original Combination:** *Argynnis californica*

**Type Locality:** "California...at Alma, Santa Clara County"

**Types:** Holotype (#7034) in ANSP.

- d. ***Speyeria coronis simaetha*** dos Passos & Grey, 1945  
Am. Mus. Novit. (1297): 2-3, figs. 5 ♂ D, 6 ♂ V (holotype).  
**Original Combination:** *Speyeria coronis simaetha*  
**Type Locality:** "Black Canyon, Cascade Mountains, near Brewster, Washington" [Okanogan County]  
**Types:** Holotype in AMNH.
  - e. ***Speyeria coronis snyderi*** (Skinner, 1897)  
Can. Entomol. 29(6): 154.  
**Original Combination:** *Argynnis Snyderi*  
**Type Locality:** "Salt Lake City, Utah...Ogden"; defined as "City Creek Canyon, Salt Lake City, Salt Lake County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12.  
**Types:** Lectotype (#7033) in ANSP, designated by dos Passos and Grey (1947), *ibid.*; possible lectotype or paralectotype figured by W. Holland (1898), Butt. Book: pl. 18, fig. 6 ♂ D.
  - f. ***Speyeria coronis halcyone*** (W. H. Edwards, [1869])  
Butts. N. Am. [1](3): [81], pl. Argynnis 9, figs. 5 ♂ D, 6 ♂ V (1869), 3(9): pl. Argynnis 5, figs. 3 ♀ D, 4 ♀ V (1890).  
**Original Combination:** *Argynnis Halcyone*  
**Type Locality:** "Colorado"; defined as "Southern border of South Park, Park Co....along the road from Hartzel east to Howbert." The altitude varies a few feet above 7600 feet" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159, suggested to be "Estes Park, Larimer County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; neotype labeled "Colo."  
**Types:** Neotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 265, fig. 7 ♂ D&V, suggested that this may be a syntype, and therefore the lectotype.
631. ***Speyeria carolae*** (dos Passos & Grey, 1942)  
Am. Mus. Novit. (1214): 2-4, fig. 1 (left) ♂ D&V.  
**Original Combination:** *Argynnis coronis carolae*  
**Type Locality:** "Charleston Park, Clark County, Nevada"  
**Types:** Holotype in AMNH.  
T. Emmel and Austin (1998), Syst. W. N. Am. Butts. (34): 443-450, determined the species-level status of this taxon.
632. ***Speyeria zerene*** (Boisduval, 1852)
- a. ***Speyeria zerene sitka*** Hammond, Harry & McCorkle, 2001  
Butts. B. C.: 274-276, figs. ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Speyeria zerene sitka*  
**Type Locality:** "AK, Haines" [Alaska]  
**Types:** Holotype in CAS.
  - b. ***Speyeria zerene bremnerii*** (W. H. Edwards, 1872)  
Trans. Am. Entomol. Soc. 4(1/2): 61, 63-64, no. 4; figured by W. H. Edwards (1874), Butts. N. Am. 2(1): pl. Argynnis 4, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Bremnerii*  
**Type Locality:** "San Juan Island" [San Juan County, Washington]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 93, pl. 10, fig. 7 ♂ D, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 270, fig. 10 ♂ D&V.  
= ⚡"sordida" (W. G. Wright, 1905)  
Butts. W. Coast: 133, under no. 119.  
**Original Combination:** [*Argynnis Bremneri*] v. *Sordida*  
**Type Locality:** "Puget Sound, Washington" implied from the text.  
**Types:** "Holotype" (#4326) in CAS; figured by Howe (1975), Butts. N. Am.: pl. 31, fig. 5 ♂ D&V.  
The text clearly indicates that this taxon was described as an individual variant. Gunder (1932), Can. Entomol. 64(12): 281, determined that the holotype is a worn specimen of *bremnerii*.
  - c. ***Speyeria zerene hippolyta*** (W. H. Edwards, 1879)  
Can. Entomol. 11(5): 81.  
**Original Combination:** *Argynnis Hippolyta*  
**Type Locality:** "Oregon...Northern California"; defined as "Oceanside, Tillamook County, Oregon" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 93, pl. 12, fig. 10 ♂ D, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 266, fig. 8 ♂ D&V, and Howe (1975), Butts. N. Am.: pl. 22, figs. 9 ♂ D, 10 ♂ V.
  - d. ***Speyeria zerene gloriosa*** Moeck, 1957  
Geogr. var. *Speyeria*: 21, 24, unnumbered fig. ♂ D&V (holotype), ♀ D&V; fig. p. 23, 9 ♂ V, 6 ♀ V.  
**Original Combination:** *Speyeria zerene gloriosa*  
**Type Locality:** "Illinois River Valley, Josephine County, southwestern Oregon, on the road leading west from Selma, along the river, from about 1,600 feet elevation down to about 1,100 feet"  
**Types:** Holotype in AMNH.
  - e. ***Speyeria zerene behrensii*** (W. H. Edwards, 1869)  
Trans. Am. Entomol. Soc. 2(4): 370-371; figured by W. H. Edwards (1868), Butts. N. Am. [1](6): pl. Argynnis 12, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Argynnis Behrensii*

**Type Locality:** "Mendocino, California" [Mendocino County]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13. F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 269-271, fig. 9 ♂ D&V, noted that this specimen may not be one of the original types; therefore the "lectotype" may need to be redesignated as neotype.

f. ***Speyeria zerene sonomensis*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (36): 455-456, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Speyeria zerene sonomensis*

**Type Locality:** "California: Sonoma County; south end of Sonoma Mountains, 1.5 air mi. N. of intersection of Lakeville Hwy. & Rt. 37, 175' elev."

**Types:** Holotype in LACM.

g. ***Speyeria zerene puntareyes*** J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (35): 451-452, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Speyeria zerene puntareyes*

**Type Locality:** "California: Marin County; Point Reyes Peninsula; stabilized dunes 2.0 air miles SW of RCA radio towers (0.4 air mi. WSW of BM 157 on 1954 USGS 15' Pt. Reyes quadrangle)"

**Types:** Holotype in LACM.

h. ***Speyeria zerene myrtleae*** dos Passos & Grey, 1945 †

Am. Mus. Novit. (1297): 3-4, figs. 7 ♂ D, 8 ♂ V (holotype).

**Original Combination:** *Speyeria zerene myrtleae*

**Type Locality:** "San Mateo, California" [San Mateo County]

**Types:** Holotype in AMNH.

i. ***Speyeria zerene monticola*** (Behr, 1863)

Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 84, no. 4.

**Original Combination:** *Argynnis monticola*

**Type Locality:** "California" implied from the title of the paper; "Yosemite Valley and some other localities of the Sierra Nevada" in the descriptor; suggested to be "several localities in the Sierra Nevada" by Behr (1862), Proc. Calif. Acad. Sci. 2([sig.] 12): 175, no. 8 [unnamed]; defined as "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; subsequently defined as "Mather, ca. 15 air miles NW of Yosemite Valley, Tuolumne County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 97; neotype from "USA: California, Tuolumne County, Mather, Hog Ranch."

**Types:** Neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 97, figs. 7 ♂ D, 8 ♂ V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12, designated a "lectotype" in the USNM, but J. Emmel *et al.* (1990), suggested this is not a syntype, and that a neotype was required.

j. ***Speyeria zerene malcolmi*** (J. A. Comstock, 1920)

Southwest Sci. Bull. [1]: 4-5, pl. [1], figs. 4 ♂ D (holotype), 5 ♀ D, 6 ♂ V.

**Original Combination:** *Argynnis Malcolmi*

**Type Locality:** "Mammoth, Cal." [Mono County, California]

**Types:** Holotype in LACM.

= *♯*"sineargentatus" (Gunder, 1927)

Can. Entomol. 59(12): 286, no. 19, pl. B, fig. 19 ♂ V ("holotype").

**Original Combination:** *Argynnis montivaga* race *malcolmi* tr. f. *sineargentatus*

**Type Locality:** "Mammoth, Mono Co., Calif." [California]

**Types:** "Holotype" in AMNH.

k. ***Speyeria zerene zerene*** (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 303, no. 44; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 258, figs. 2168 ♂ D&V (lectotype), 2169 ♀ D&V.

**Original Combination:** *Argynnis Zerene*

**Type Locality:** "au bord du bois, dans les montagnes peu élevées"; suggested to be "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12; defined as "Agua Fria (Mariposa Co.)" by Masters (1979), J. Lepid. Soc. 33(2): 137-138; subsequently defined as "Hwy. 70 at Chambers Creek, North Fork Feather River, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 17.

**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 12, figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts.: 67, figs. 93 ♂ D, 94 ♂ V.

= *conchyliatus* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 63.

**Original Combination:** *Argynnis zerene* form *conchyliatus*

**Type Locality:** "Mt. Shasta, Calif." [Siskiyou County, California]

**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 25, figs. 1 ♂ V.

= *♯*"shastaensis" (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 65-66.

**Original Combination:** *Argynnis zerene* ab. *shastaensis*

**Type Locality:** "Mt. Shasta, Siskiyou Co." [California]

**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 26, fig. 1 ♂ D.

l. ***Speyeria zerene gunderi*** (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 67-68.

**Original Combination:** *Argynnis gunderi*



- Type Locality:** "Modoc Co., Cal."; defined as "Mountains above Davis Creek ranger station, north of Alturas" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 11. [California]
- Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 27, fig. 4 ♂ D.  
 = *cynna* dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 4-5, figs. 11 ♂ D, 12 ♂ V (holotype).  
**Original Combination:** *Speyeria zerene cynna*  
**Type Locality:** "Ruby Valley, Elko County, Nevada...Humboldt National Forest"  
**Types:** Holotype in AMNH.  
 Grey (1989), J. Lepid. Soc. 43(1): 3, determined this synonymy.
- m. ***Speyeria zerene picta*** (McDunnough, 1924)  
 Can. Entomol. 56(2): 43.  
**Original Combination:** [*Argynnis halcyone*] race *picta*  
**Type Locality:** "Aspen Grove, B. C." [British Columbia]  
**Types:** Holotype (#634) in CNC.  
 = *garretti* (Gunder, 1932)  
 Can. Entomol. 64(12): 282.  
**Original Combination:** *Argynnis garretti*  
**Type Locality:** "Cranbrook, B. C., Can." [British Columbia]  
**Types:** Holotype in AMNH.
- n. ***Speyeria zerene platina*** (Skinner, 1897)  
 Can. Entomol. 29(6): 154.  
**Original Combination:** *Argynnis platina*  
**Type Locality:** "Ogden, Utah...Beaver Canon, Idaho"; defined as "Ogden, Weber County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 13.  
**Types:** Lectotype (#7032) in ANSP, designated by dos Passos and Grey (1947), *ibid.*  
 = *pfoutsi* (Gunder, 1933)  
 Can. Entomol. 65(8): 171-172.  
**Original Combination:** *Argynnis pfoutsi*  
**Type Locality:** "Mt. Loafer, nr. Payson, Utah" [Utah County]  
**Types:** Holotype in AMNH.  
 Grey (1989), J. Lepid. Soc. 43(1): 3, determined this synonymy.
- o. ***Speyeria zerene sinope*** dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 4, figs. 9 ♂ D, 10 ♂ V (holotype).  
**Original Combination:** *Speyeria zerene sinope*  
**Type Locality:** "Rocky Mountain National Park, Colorado, 8000 feet...in the Estes Park area" [Larimer County]  
**Type:** Holotype in AMNH.
633. ***Speyeria callippe*** (Boisduval, 1852)  
 The subspecific arrangement for this species follows dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14-16, Hammond (1986), J. Res. Lepid. 24(3): 197-208, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (72): 829-830, but see Arnold (1983), Ann. Entomol. Soc. Am. 76(6): 929-941.
- a. ***Speyeria callippe adiateoides*** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (12): 150-151, figs. 43 ♂ D, 44 ♂ D (holotype); 45 ♀ V, 46 ♀ V.  
**Original Combination:** *Speyeria callippe adiateoides*  
**Type Locality:** "California: Mendocino County, Cahto Peak summit, 4000-4200 feet elevation"  
**Types:** Holotype in LACM.
- b. ***Speyeria callippe liliana*** (Hy. Edwards, 1877)  
 Proc. Calif. Acad. Sci. [1]7(12): 170.  
**Original Combination:** *Argynnis Liliana*  
**Type Locality:** "near St. Helena, Napa Co."; defined as "[Bale Station], near [Mount] St. Helena, Napa Co[unty]., California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14.  
**Types:** Lectotype (#4276) in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14; possibly figured by W. Holland (1898), Butt. Book: pl. 13, fig. 11 ♂ D.  
 = *baroni* (W. H. Edwards, 1881)  
 Trans. Am. Entomol. Soc. 9(1): 2-3.  
**Original Combination:** [*Argynnis Liliana*] var. *Baroni*  
**Type Locality:** "Northern California"; defined as "Bale Station, near Mount St. Helena, Napa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14, but F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 273, suggested "Mendocino, Lake or Sonoma counties."  
**Types:** Holotype in USNM; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 272, fig. 11 ♂ D&V.
- c. ***Speyeria callippe callippe*** (Boisduval, 1852)  
 Annls. Soc. Entomol. Fr. (2)10(2): 302, no. 43; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 258, fig. 2166 ♂ D&V, 2167 ♀ D&V.  
**Original Combination:** *Argynnis callippe*  
**Type Locality:** "au bord des forets"; defined as "San Francisco, San Francisco County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 14.  
**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), *ibid.*; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 66, figs. 90 ♂ D, 91 ♂ V.



- d. **Speyeria callippe comstocki** (Gunder, 1925)  
Entomol. News 36(1): 8-9, no. 13, pl. 1, figs. 6 ♂ D, 7 ♀ D.  
**Original Combination:** *Argynnis calippe* [sic] var. *comstocki*  
**Type Locality:** "Los Angeles, Los Angeles County, California"  
**Types:** Holotype in AMNH.  
= *†"creelmani"* (Gunder, 1934)  
Can. Entomol. 66(6): 127.  
**Original Combination:** *Argynnis comstocki* tr. f. *creelmani*  
**Type Locality:** "East San Diego, California" [San Diego County]  
**Types:** "Holotype" in AMNH.
- e. **Speyeria callippe macaria** (W. H. Edwards, 1877)  
Field & Forest 3(5): 86-87.  
**Original Combination:** *Argynnis Macaria*  
**Type Locality:** "Havilah, California" [Kern County]  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 96, pl. 13, fig. 9 ♂ D, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 283, fig. 15 ♂ D&V.
- f. **Speyeria callippe laurina** (W. G. Wright, 1905)  
Butts. W. Coast: 53, no. 134; 138-139, no. 134, pl. 15, fig. 134 ♂ V (lectotype).  
**Original Combination:** [*Argynnis*] *Laurina*; *Argynnis Laurina* n. v.  
**Type Locality:** "Southern California...flies with *laura*"; defined as "Greenhorn Mountains, Kern County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16.  
**Types:** Holotype (#4290) in CAS.  
= *†wrighti* (W. G. Wright, 1905)  
Butts. W. Coast: 139, no. 134.  
**Original Combination:** *Argynnis Wrighti*  
This name was listed without a description or indication; a *nomen nudum*.
- g. **Speyeria callippe rupestris** (Behr, 1863)  
Proc. Calif. Acad. Sci. 3(1)([sig.] 6): 84, no. 3.  
**Original Combination:** *Argynnis rupestris*  
**Type Locality:** "California" implied from the title of the paper, "the steep rocky declivities characterizing the lower part of the Sierra at moderate elevation above the sea" from the description; defined as "Trinity Center, Trinity County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; neotype from "California: Mariposa County; Moore Creek Road 1.5 to 2 road miles south of Highway 120, elevation 3200'; S.35, T.1S., R.17E."  
**Types:** Neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 148-149, figs. 33 ♂ D, 34 ♂ V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 109, figs. 10 ♂ D, 11 ♂ V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15, designated a "lectotype" (in MGCL), but this is invalid (Code Article 74.2).
- h. **Speyeria callippe inornata** (W. H. Edwards, 1872)  
Trans. Am. Entomol. Soc. 4(1/2): 61, 64-65, no. 5; figured by W. H. Edwards (1876), Butts. N. Am. 2(4): pl. Argynnis 5, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Inornata*  
**Type Locality:** "at Downieville, California"; suggested to be "vicinity of Camptonville, Yuba County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 149.  
**Types:** Neotype in CMNH, designated by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 354; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 274, fig. 12 ♂ D&V.  
Grey (1989), J. Lepid. Soc. 43(1): 4-5, detailed the relationship between *S. c. inornata* and *S. c. juba*.
- i. **Speyeria callippe juba** (Boisduval, 1869)  
Annls. Soc. Entomol. Belg. 12: 60, no. 54; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 262, fig. 2197 ♂ D&V, 2198 ♀ D&V.  
**Original Combination:** *Argynnis Juba*  
**Type Locality:** "les prairies élevées de la Juba"; defined as "Downieville, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15.  
**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 76, figs. 255 ♂ D, 256 ♂ V.  
= *laura* (W. H. Edwards, 1879)  
Can. Entomol. 11(3): 49-50.  
**Original Combination:** *Argynnis Laura*  
**Type Locality:** "Nevada" implied from the title of paper; suggested to be "the region mountain-wards from Virginia City" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 277; defined as "vicinity of Downieville, canyon of the North Fork of the Yuba River, Sierra County, California" by Austin (1998), Syst. W. N. Am. Butts. (50): 634.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 15; figured by W. Holland (1898), Butt. Book: pl. 12, fig. 11 ♂ D, F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 276, fig. 13 ♂ D&V, and Howe (1975), Butts. N. Am.: pl. 29, fig. 3 ♂ D&V.  
= *sierra* dos Passos & Grey, 1945  
Am. Mus. Novit. (1297): 5-6, figs. 15 ♂ D, 16 ♂ V (holotype).  
**Original Combination:** *Speyeria callippe sierra*  
**Type Locality:** "Gold Lake, Sierra County, California"  
**Types:** Holotype in AMNH.

- Grey (1989), J. Lepid. Soc. 43(1): 4, determined this synonymy.
- j. **Speyeria callippe hagemani** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (12): 150, figs. 39 ♂ D, 40 ♂ V (holotype); 41 ♀ D, 42 ♀ V.  
**Original Combination:** *Speyeria callippe hagemani*  
**Type Locality:** "California: Shasta County; Shingletown, 3500' elevation"  
**Types:** Holotype in LACM.
- k. **Speyeria callippe shasta** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (12): 149, figs. 35 ♂ D, 36 ♂ V (holotype); 37 ♀ D, 38 ♀ V.  
**Original Combination:** *Speyeria callippe shasta*  
**Type Locality:** "California: Shasta County; 8 road miles southeast of McCloud River Bridge, Lake Shasta"  
**Types:** Holotype in LACM.
- l. **Speyeria callippe elaine** dos Passos & Grey, 1945  
Am. Mus. Novit. (1297): 5, figs. 13 ♂ D, 14 ♂ V (holotype).  
**Original Combination:** *Speyeria callippe elaine*  
**Type Locality:** "Butte Falls, Oregon" [Jackson County]  
**Types:** Holotype in AMNH.
- m. **Speyeria callippe semivirida** (McDunnough, 1924)  
Can. Entomol. 56(2): 42-43.  
**Original Combination:** [*Argynnis callippe*] race *semivirida*  
**Type Locality:** "Aspen Grove, B. C." [British Columbia]  
**Types:** Holotype (#633) in CNC.
- n. **Speyeria callippe chilcotensis** C. Guppy & J. Shepard, 2001  
Butts. B. C.: 276-277, figs. ♂ D&V, ♀ D&V (holotype).  
**Original Combination:** *Speyeria callippe chilcotensis*  
**Type Locality:** "BC, Riske Creek" [British Columbia]  
**Types:** Holotype in BCPM.
- o. **Speyeria callippe nevadensis** (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(1): 10, 14-15, no. 6; figured by W. H. Edwards (1890), Butts. N. Am. 3(9): pl. Argynnis 5, figs. 1 ♂ D (neotype), 2 ♂ V.  
**Original Combination:** *Argynnis Nevadaensis*  
**Type Locality:** "valleys of the Sierra, near Virginia City"; defined as "immediate neighborhood of Virginia...especially abundant near Washoe Lake" by W. H. Edwards (1871), Butts. N. Am. [1](8): [94]; neotype from "Lake Washoe, Nevada." [Washoe County]  
**Types:** Neotype in CMNH, designated by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 355-356; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 279, fig. 14 ♂ D&V.
- p. **Speyeria callippe harmonia** dos Passos & Grey, 1945  
Am. Mus. Novit. (1297): 6-7, figs. 17 ♂ D, 18 ♂ V (holotype).  
**Original Combination:** *Speyeria callippe harmonia*  
**Type Locality:** "Mount Wheeler (Snake Range near Utah border), Nevada" [White Pine County]  
**Types:** Holotype in AMNH.
- q. **Speyeria callippe calgariana** (McDunnough, 1924)  
Can. Entomol. 56(2): 42.  
**Original Combination:** [*Argynnis nevadensis*] race *calgariana*  
**Type Locality:** "Calgary...Alta."; suggested to be "the head of Pine Creek, Alberta (Township 22, Range 2, West of the 5th meridian)" by Kondla (1996), Alberta Naturalist 26(2): 39.  
**Types:** Holotype (#632) in CNC.
- r. **Speyeria callippe gallatini** (McDunnough, 1929)  
Can. Entomol. 61(5): 106-107.  
**Original Combination:** *Argynnis nevadensis* var. *gallatini*  
**Type Locality:** "Elkhorn Ranch, Upper Gallatin Canyon, Mont." [Gallatin County, Montana]  
**Types:** Holotype (#2954) in CNC.
- s. **Speyeria callippe meadii** (W. H. Edwards, 1872)  
Trans. Am. Entomol. Soc. 4(1/2): 61, 67-68, no. 7; figured by W. H. Edwards (1875), Butts. N. Am. 2(3): pl. Argynnis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Meadii*  
**Type Locality:** "Turkey Creek Junction, in Colorado"; defined as "Turkey Creek Junction, Colorado...Turkey Creek just south of Morrison, near Denver" probably "the junction of South Turkey Creek with Turkey Creek, a few miles up in the foothills" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159; also see F. Brown (1956), Lepid. News 9(6): 185-190. [Jefferson County]  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 284, fig. 16 ♂ D&V.  
= ♀ "gerhardi" (Gunder, 1927)  
Can. Entomol. 59(12): 287, no. 24, pl. B, figs. 24 ♂ D, 24a ♂ V ("holotype").  
**Original Combination:** *Argynnis nevadensis* race *meadii* tr. f. *gerhardi*  
**Type Locality:** "Colorado"; defined as "Turkey Creek Junction, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16. [Jefferson County]  
**Types:** "Holotype" in FMNH.



634. *Speyeria egleis* (Behr, 1862)a. *Speyeria egleis tehachapina* (J. A. Comstock, 1920)

Southwest Sci. Bull: 6-9, pl. [1], figs. 7 ♂ V, 8 ♂ D (holotype); 9 ♀ D.

**Original Combination:** *Argynnis montivaga* var. *tehachapina*

**Type Locality:** "highest peak in Tehachapi Mts., California" [Kern County]

**Types:** Holotype in LACM.

b. *Speyeria egleis egleis* (Behr, 1862)

Proc. Calif. Acad. Sci. 2([sig.]12): 174, no. 4

**Original Combination:** *A[rgynnis]. Egleis* Boisduval?

**Type Locality:** "California" implied from the title of the paper, "high up in the mountains" from the description; defined as "vicinity of Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

**Types:** Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 97, figs. 13 ♀ D, 14 ♀ V; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2194 ♂ D&V. This is the same specimen designated as the "lectotype" of *A. egleis* Boisduval, 1869, by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17. J. Emmel *et al.* (1998), *ibid.*, demonstrated that this specimen could not have been a syntype.

Boisduval (1869), Annls. Soc. Entomol. Belg. 12: 59-60, no. 53 (see below), redescribed this taxon and dos Passos and Grey (1947), *ibid.*, designated the Boisduval specimen figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2194 ♂ D&V, as the lectotype of Behr's name. This specimen is not a syntype of *S. e. egleis* Behr, 1862, thus, it is not a valid lectotype (Code Article 74.2).

= *montivaga* (Behr, 1863)

Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 84, no. 2.

**Original Combination:** *Argynnis montivaga*

**Type Locality:** "California" implied from the title of the paper, "widely spread through the Sierra...at different localities... from an elevation of 10,500 feet" from the description; defined as "vicinity of Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

**Types:** Neotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 98. This is the same specimen designated as the neotype of *S. egleis*, making these names objective synonyms. The "lectotype" from the Boisduval collection designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17, is invalid (see above).

= *egleis* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 59-60, no. 53; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2194 ♂ D&V, pl. 262, fig. 2195 ♀ D&V.

**Original Combination:** *Argynnis Egleis*

**Type Locality:** "les lieux incultes et aux borde des forets, dans l'intérieur de la Californie"

**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17. This is the same specimen designated as the neotype of *S. e. egleis* (Behr, 1862) by J. Emmel *et al.* (1998). Preoccupied by *Argynnis egleis* Behr, 1862, Proc. Calif. Acad. Sci. 2([sig.]12): 174, no. 4, and a junior objective synonym of that name (see above).

= *astarte* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 3[3]: 434, 435, no. 4.

**Original Combination:** *Argynnis Astarte*

**Type Locality:** "Mountainous regions of California"; defined as "Gold Lake, Sierra County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17.

**Types:** Neotype in FMNH, designated by dos Passos and Grey (1947), *ibid.*; this is the lectotype of *Argynnis egleis* Behr, 1862.

Preoccupied by *Argynnis astarte* E. Doubleday (1848), *in*: Gen. diurn. Lepid. (1) (21): 181.

= *"mammothi"* (Gunder, 1924)

Entomol. News 35(5): 157, pl. 2, fig. H ♂ D ("holotype").

**Original Combination:** *Argynnis montivaga* ab. ♂ *mammothi*

**Type Locality:** "Mammoth Camp, Mono County, California"

**Types:** "Holotype" possibly in LACM (Riddell collection).

= *"boharti"* (Gunder, 1929)

Bull. Brooklyn Entomol. Soc. 24(5): 326-327, pl. 31, fig. 5 ♀ D&V ("holotype").

**Original Combination:** *Argynnis montivaga* tr. f. *boharti*

**Type Locality:** "Mono Pass Trail (Yosemite to Mono Lake), Calif." [California]

**Types:** "Holotype" in AMNH.

c. *Speyeria egleis oweni* (W. H. Edwards, 1892)

Can. Entomol. 24(5): 105-106, no. [1] (not 2 as given).

**Original Combination:** *Argynnis Oweni*

**Type Locality:** "Mt. Shasta, elevation 7,500 feet" [Siskiyou County, California]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 17; figured by W. Holland (1898), Butt. Book: pl. 12, fig. 5 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 294, fig. 19a ♂ V.

d. *Speyeria egleis mattooni* J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (33): 438, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Speyeria egleis mattooni*

**Type locality:** "California: Siskiyou County; Dry Lake Mountain, U. S. Forest Service Road 40S01, Siskiyou Mountains"

**Types:** Holotype in LACM.

e. *Speyeria egleis yolaboli* J. Emmel & T. Emmel, 1998

Syst. W. N. Am. Butts. (33): 439, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.



- Original Combination:** *Speyeria egleis yolaboli*  
**Type Locality:** "California: Tehama County; South Yolla Bolly Mountain"  
**Types:** Holotype in LACM.
- f. ***Speyeria egleis moecki*** Hammond & Dornfeld, 1983  
 J. Lepid. Soc. 37(2): 115-117, fig. 1 ♂ D&V (holotype) ♀ D&V.  
**Original Combination:** *Speyeria egleis moecki*  
**Type Locality:** "Skookum Mdw., Walker Rim, Klamath Co., Ore." [Oregon]  
**Types:** Holotype in AMNH.
- g. ***Speyeria egleis toiyabe*** Howe, 1975  
 Butts. N. Am.: 237, pl. 31, fig. 14 ♂ D&V (holotype).  
**Original Combination:** *Speyeria egleis toiyabe*  
**Type Locality:** "Kingston Canyon, Toiyabe Range, Lander County, Nevada"  
**Types:** Holotype in LACM.
- h. ***Speyeria egleis reidi*** Austin, 1998  
 Syst. W. N. Am. Butts. (46): 574-575, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Speyeria egleis reidi*  
**Type Locality:** "Nevada: White Pine County; Snake Range, Wheeler Peak Campground, 3033 m, T13N R68E (unsectioned) on USGS Sacramento Pass, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- i. ***Speyeria egleis linda*** (dos Passos & Grey, 1942)  
 Am. Mus. Novit. (1214): 1-2, fig. 1(right) ♂ D&V (holotype).  
**Original Combination:** *Argynnis utahensis linda*  
**Type Locality:** "Heyburn Peak, Sawtooth-Boise, Idaho, 9500-10,000 feet" [Custer County]  
**Types:** Holotype in AMNH.
- j. ***Speyeria egleis utahensis*** (Skinner, 1919)  
 Entomol. News 30(8): 216.  
**Original Combination:** *Argynnis utahensis*  
**Type Locality:** "City Creek Canyon, Salt Lake City, Utah" [Salt Lake County]  
**Types:** Holotype (#7036) in ANSP.
- k. ***Speyeria egleis secreta*** dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 7-8, figs. 19 ♂ D, 20 ♂ V (holotype).  
**Original Combination:** *Speyeria montivaga secreta*  
**Type Locality:** "Rocky Mountain National Park, Colorado, 8000 feet...in the Estes Park area" [Larimer County]; more likely to be from Rabbit Ears Pass, Routt-Grand counties, Colorado (A. Warren pers. comm. 2006).  
**Types:** Holotype in AMNH.
- l. ***Speyeria egleis macdunnoughi*** (Gunder, 1932)  
 Can. Entomol. 64(12): 280-281.  
**Original Combination:** *Argynnis macdunnoughi*  
**Type Locality:** "Elkhorn Ranch Resort, Gallatin County, Mont...up what they call (at the Resort) Spring Creek for about half a mile, the path branches to the right about where the water ceases to flow and rises sharply over a ridge, ending in an open meadow"; "7000 feet, Upper Gallatin Canyon" added by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18.  
**Types:** Holotype (#3655) in CNC.
- m. ***Speyeria egleis albrighti*** (Gunder, 1932)  
 Can. Entomol. 64(12): 281-282.  
**Original Combination:** *Argynnis albrighti*  
**Type Locality:** "Highwood Mts., Chouteau County, Montana"  
**Types:** Holotype in AMNH.
635. ***Speyeria adiaсте*** (W. H. Edwards, 1864)  
 a. ***Speyeria adiaсте adiaсте*** (W. H. Edwards, 1864)  
 Proc. Entomol. Soc. Philad. 3[3]: 436, no. 7; figured by W. H. Edwards (1890), Butts. N. Am. 3(10): pl. Argynnis 8, figs. 1 ♂ D, 2 ♂ V (lectotype), 3 ♀ D (as *adiante*).  
**Original Combination:** *Argynnis Adiante*  
**Type Locality:** "California" implied from the title of paper; defined as "Santa Cruz, Santa Cruz County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 289, noted that this taxon is not found in the immediate vicinity of the city of Santa Cruz, but about 9 miles north of it; see *adiante*.  
**Types:** Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 291, fig. 17 ♂ D&V; this specimen might be the holotype; figured by W. Holland (1898), Butt. Book: pl. 14, fig. 4 ♂ D. This is also the lectotype of *adiante* below.  
 Grey (1989), J. Lepid. Soc. 43(1): 4, corroborated the species-level status of this taxon.  
 = ‡*adiante* (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 61, no. 57  
**Original Combination:** *Argynnis Adiante*  
**Type Locality:** "au bord des bois, dans la partie orientale de la Californie"; defined as "Santa Cruz Mountains, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; further defined as "2 miles southeast of Summit Road along Highland Way, Santa Cruz Mountains, Santa Cruz County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts.: 34.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 16; figured by J.

Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 76, figs. 261 ♂ D, 262 ♂ V. This is also the lectotype of *adiaste* and a junior objective synonym of that name.

b. *Speyeria adiate clemencei* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 67.

**Original Combination:** *Argynnis adiate* race *clemencei*

**Type Locality:** "Atascadero, Calif." [San Luis Obispo County, California]

**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 28, figs. 7 ♂ D.

c. *Speyeria adiate atossa* (W. H. Edwards, 1890) †

Butts. N. Am. 3(10): [127]-[128], pl. Argynnis 8, figs. 4 ♂ D, 5 ♀ D.

**Original Combination:** *Argynnis Atossa*

**Type Locality:** "North American...Tehachipe [*sic*], south California...in a little valley about four miles from town, by a small stream" [Tehachapi, Kern County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 100, pl. 13, fig. 12 ♂ D, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 292, fig. 18 ♀ D&V.

= *tejonica* (J. A. Comstock, 1925)

Bull. South. Calif. Acad. Sci. 24(3): 68.

**Original Combination:** *Argynnis atossa* form *tejonica*

**Type Locality:** "Tejon region (Collins Ranch), California" [Los Angeles County]

**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 28, fig. 6 ♂ V.

636. *Speyeria atlantis* (W. H. Edwards, 1862)

a. *Speyeria atlantis atlantis* (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(1/2): 54-55, no. 1; figured by W. H. Edwards (1868), Butts. N. Am. [1](1): pl. Argynnis 5, figs. 1 ♂ D, 2 ♂ V, 3 ♂ V.

**Original Combination:** *Argynnis atlantis*

**Type Locality:** "mountainous districts of the northern states and to parts of British America...Catskill Mountains, near the Mountain House...White Mountains...Williamstown, Mass...Lake Winnipeg...near Hudson's Bay...also...north side of Lake Superior"; defined as "Hunter, Green County, New York" by dos Passos (1935), Can. Entomol. 67(4): 85; lectotype labeled "Catskills."

**Types:** Lectotype in CMNH, designated by dos Passos (1935), Can. Entomol. 67(4): 85, and again by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 296, fig. 20 ♂ D&V.

= ♀ "chemo" (Scudder, 1889)

Butts. East. U. S. and Can. 1(4): 573-574.

**Original Combination:** *A[rgynnis]. a[tlantis]* [ab]. *chemo*

**Type Locality:** "Lake Chemo, ten miles northeast of Bangor, Me." [Penobscot County, Maine]

**Types:** "Lectotype" (#25828) in MCZ, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 18.

b. *Speyeria atlantis canadensis* (dos Passos, 1935)

Can. Entomol. 67(4): 85-87.

**Original Combination:** *Argynnis atlantis canadensis*

**Type Locality:** "Doyle Station, Newfoundland" [Newfoundland and Labrador]

**Types:** Holotype in AMNH.

c. *Speyeria atlantis hollandi* (F. Chermock & R. Chermock, 1940)

Can. Entomol. 72(4): 82-83.

**Original Combination:** *Argynnis atlantis hollandi*

**Type Locality:** "Riding Mountains, Manitoba"

**Types:** Holotype (#4370) in CNC.

d. *Speyeria atlantis pahasapa* Spomer, Scott & Kondla, 1998

Papilio (n.s.) 8: 13, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ D, 7 ♂ V, 8 ♂ V, 9 ♂ V.

**Original Combination:** *Speyeria atlantis pahasapa*

**Type Locality:** "Deerfield Reservoir, Pennington Co., S. D." [South Dakota]

**Types:** Holotype in AMNH.

e. *Speyeria atlantis sorocko* Scott, Kondla & Spomer, 1998

Papilio (n.s.) 8: 13, figs. 10 ♂ V (holotype), 11 ♀ V, 12 ♂ D, 13 ♂ V, 14 ♀ D, 15 ♀ V.

**Original Combination:** *Speyeria atlantis sorocko*

**Type Locality:** "several km NE of Mt. Judge, 9100 feet altitude, Clear Creek Co., Colo." [Colorado]

**Types:** Holotype in AMNH.

637. *Speyeria hesperis* (W. H. Edwards, 1864)

This was treated as a species-level taxon by Scott *et al.* (1998), Papilio (n.s.) 8: 1-31, and other recent authors.

a. *Speyeria hesperis irene* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 59-60, under no. 53; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 262, fig. 2196 ♀ D&V.

**Original Combination:** [*Argynnis Egaleis* variété] *Irene*

**Type Locality:** "les lieux incultes et aux borde des forets, dans l'intérieur de la Californie"; defined as "Massack, Plumas County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; suggested to be "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 33.

**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 33, figs. 252 ♀ D, 253 ♀ V.

b. *Speyeria hesperis hanseni* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (12): 152, figs. 47 ♂ D, 48 ♂ D (holotype); 49 ♀ D, 50 ♀ V.



- Original Combination:** *Speyeria atlantis hansenii*  
**Type Locality:** "California: Tehama County; Anthony Peak on Covelo Road"  
**Types:** Holotype in LACM.
- c. ***Speyeria hesperis cottlei*** (J. A. Comstock, 1925)  
 Bull. South. Calif. Acad. Sci. 24(3): 64-65.  
**Original Combination:** *Argynnis cottlei*  
**Type Locality:** "near Alturas, Modoc Co., Calif." [California]  
**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 26, fig. 1 ♀ V.  
 J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 151-152, treated this taxon at the subspecies-level, and suggested that *dodgei* might be considered a synonym.
- d. ***Speyeria hesperis dodgei*** (Gunder, 1931)  
 Bull. South. Calif. Acad. Sci. 30(2): 46.  
**Original Combination:** *Argynnis dodgei*  
**Type Locality:** "Diamond Lake, Douglas Co., Oregon"  
**Types:** Holotype in AMNH.
- e. ***Speyeria hesperis elko*** Austin, 1984  
 J. Lepid. Soc. 37(3): 244-247, figs. 1 upper left ♂ D, 2 upper right ♂ V (holotype), 1 lower left ♀ D, 2 lower left ♀ V.  
**Original Combination:** *Speyeria atlantis elko*  
**Type Locality:** "Nev(ada): Elko Co(unt); Owyhee R(iver). Valley, Wildhorse Creek Campg(round)., ca. 10 mi(les). S(outh). (of) Mountain City"  
**Types:** Holotype in MGCL.
- f. ***Speyeria hesperis greyi*** Moeck, 1950  
 Entomol. News 61(3): 61-62, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Speyeria atlantis greyi*  
**Type Locality:** "Lamoille Canyon, Ruby Mountains, Elko County, Nevada....at an elevation of about 8,500 feet"  
**Types:** Holotype in AMNH.
- g. ***Speyeria hesperis chitone*** (W. H. Edwards, 1879)  
 Can. Entomol. 11(5): 82.  
**Original Combination:** *Argynnis chitone*  
**Type Locality:** "Southern Utah and Arizona"; defined as "Cedar Breaks National Monument, Iron County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), *ibid.*; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 305, fig. 23 ♂ D&V.
- h. ***Speyeria hesperis schellbachi*** Garth, 1949  
 Bull. South. Calif. Acad. Sci. 48(1): 1-2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Speyeria atlantis schellbachi*  
**Type Locality:** "Neal Springs, North Rim, Grand Canyon National Park, Coconino County, Arizona, 8,175 feet"  
**Types:** Holotype (#471) in LACM.
- i. ***Speyeria hesperis tetonia*** dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 9-10, figs. 27 ♂ D, 28 ♂ V (holotype).  
**Original Combination:** *Speyeria atlantis tetonia*  
**Type Locality:** "Teton Mountains region, Wyoming...Teton Mountains" [Teton County]  
**Types:** Holotype in AMNH.  
 = *wasatchia* dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 8, figs. 25 ♂ D, 26 ♂ V (holotype).  
**Original Combination:** *Speyeria atlantis wasatchia*  
**Type Locality:** "Payson Canyon, Payson, Utah" [Utah County]  
**Types:** Holotype in AMNH.  
 This taxon was considered to be a synonym of *S. h. chitone* by Hammond (1991), J. Res. Lepid. 29(1/2): 59 (as *S. atlantis chitone*), and a synonym of *S. h. tetonia* by Scott *et al.* (1998), Papilio (n.s.) 8: 6, where *tetonia* was given priority over *wasatchia*.
- j. ***Speyeria hesperis viola*** dos Passos & Grey, 1945  
 Am. Mus. Novit. (1297): 10, figs. 29 ♂ D, 30 ♂ V (holotype).  
**Original Combination:** *Speyeria atlantis viola*  
**Type Locality:** "Sawtooth Mountains, Idaho...Trail Creek, 7400 feet" [Custer County]  
**Types:** Holotype in AMNH.
- k. ***Speyeria hesperis hutchinsi*** dos Passos & Grey, 1947  
 Am. Mus. Novit. (1370): 20.  
**Original Combination:** *Speyeria atlantis hutchinsi*  
 dos Passos and Grey adopted *Argynnis atlantis beani* tr. f. *hutchinsi* Gunder, 1932, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
 = ♯"hutchinsi" (Gunder, 1932)  
 Can. Entomol. 64(12): 280.  
**Original Combination:** *Argynnis atlantis beani* tr. f. *hutchinsi*  
**Type Locality:** "Twp 2N Range 1W, Jefferson County, Mont." [Montana]  
**Types:** Holotype in AMNH.
- l. ***Speyeria hesperis brico*** Kondla, Scott & Spomer, 1998  
 Papilio (n.s.) 8: 14, figs. 24 ♂ V, 25 ♀ V.



**Original Combination:** *Speyeria hesperis brico*

**Type Locality:** "Castle Creek Forest Service Rd. Km 23.5, Cariboo Mts. (25 air km due S of McBride), B.C." [British Columbia]

**Types:** Holotype in CNC.

**m. *Speyeria hesperis beani*** (W. Barnes & Benjamin, 1926)

Bull. South. Calif. Acad. Sci. 25(3): 92, no. 160b.

**Original Combination:** *Dryas atlantis* race *beani*

**Type Locality:** "Banff, Alta." [Alberta]

**Types:** Holotype in USNM.

**n. *Speyeria hesperis helena*** dos Passos & Grey, 1957

J. N. Y. Entomol. Soc. 63: 95-96.

**Original Combination:** *Speyeria* (*Speyeria*) *atlantis helena*

Proposed to replace *Argynnis lais* W. H. Edwards, 1884, Can. Entomol. 15(11): 209, with the same data. See *Boloria eunomia tricularis* synonym *lais* (Scudder, 1875).

= *lais* (W. H. Edwards, [1884])

Can. Entomol. 15(11): 209; figured by W. H. Edwards (1887), Butts. N. Am. 3(1): pl. Argynnis 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Argynnis Lais*

**Type Locality:** "Red Deer River"; corrected to "Fort Edmonton" by Geddes [1884], Can. Entomol. 15(12): 222. [Alberta]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 326, fig. 26 ♂ D&V.

Preoccupied by *Argynnis lais* Scudder (1875), Proc. Boston Soc. Nat. Hist. 17(3): [294]-296.

= *dennisi* dos Passos & Grey, 1945

Am. Mus. Novit. (1297): 20.

**Original Combination:** *Speyeria atlantis dennisi*

dos Passos and Grey adopted *Argynnis lais* tr. f. *dennisi* Gunder, 1927, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *"dennisi"* (Gunder, 1927)

Can. Entomol. 59(12): 287, no. 21, pl. B, figs. 21 ♂ D, 21a ♂ V (holotype).

**Original Combination:** *Argynnis lais* tr. f. *dennisi*

**Type Locality:** "Beulah, Man., Can." [Manitoba]

**Types:** Holotype in AMNH.

**o. *Speyeria hesperis lurana*** dos Passos & Grey, 1945

Am. Mus. Novit. (1297): 8-9, figs. 23 ♂ D, 24 ♂ V (holotype).

**Original Combination:** *Speyeria atlantis lurana*

**Type Locality:** "Black Hills of South Dakota...Harney Peak" [Custer County]

**Types:** Holotype in AMNH.

**p. *Speyeria hesperis hesperis*** (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2[4]: 501, 502-503, no. 3; figured by W. H. Edwards (1868), Butts. N. Am. [1](2): pl. Argynnis 7, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Argynnis Hesperis*

**Type Locality:** "Rocky Mountains"; defined as "Turkey Creek Junction, Jefferson County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19.

**Types:** Neotype in CMNH, first designated as lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19, but it is not a syntype; subsequently neotypified by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 356; figured by W. Holland (1898), Butt. Book: pl. 12, fig. 1 ♂ D, and F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 299, fig. 21 ♂ D&V.

**q. *Speyeria hesperis ratonensis*** Scott, 1981

Papilio (n.s.) 1: 4; figured by Scott (1998), Papilio (n.s.) 8: figs. 30 ♂ D, 31 ♂ V, 32 ♀ D, 33 ♀ V.

**Original Combination:** *Speyeria atlantis ratonensis*

**Type Locality:** "Raton Mesa, Colfax Co., New Mexico"

**Types:** Holotype in LACM.

**r. *Speyeria hesperis electa*** (W. H. Edwards, 1878)

Field & Forest 3(9): 143-144.

**Original Combination:** *Argynnis Electa*

**Type Locality:** "Colorado...in the north of that state...and taken in the South"; defined as "Rocky Mountain National Park, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; suggested to be "Turkey Creek Junction in Jefferson County" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 306, 308; subsequently defined as "Twin Lakes, Lake Co." by Scott *et al.* (1998), Papilio (n.s.) 8: 10.

**Types:** Lectotype in CMNH, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 75; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 307, fig. 24 ♂ D&V.

= *cornelia* (W. H. Edwards, 1892)

Can. Entomol. 24(5): 106-107, no. 2.

**Original Combination:** *Argynnis Cornelia*

**Type Locality:** "Ouray, and Manitou, Colorado, and in the adjacent districts...Crested Butte in the Ouray region"; defined as "Ouray, Ouray County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20.

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 20; figured by F. Brown

- (1965), Trans. Am. Entomol. Soc. 91(3): 311, fig. 25 ♂ D&V.  
 = *nikias* (Ehrmann, 1917)  
 Lepidopterist 1(7): 55-56.  
**Original Combination:** *Argynnis nikias*  
**Type Locality:** "Temez [*sic*] Springs, New Mexico" [Jemez Springs, Sandoval County]  
**Types:** Lectotype (#7815) in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19.
- s. ***Speyeria hesperis dorothea*** Moeck, 1947  
 Entomol. News 58(3): 73-75, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Speyeria atlantis dorothea*  
**Type Locality:** "Sandia Peak (Sandia Peak is in extreme southeastern Sandoval County bordering upon Bernalillo County, some fifteen miles northeast of and overlooking Albuquerque), Sandia Mountains, New Mexico...at elevations ranging from six to over ten thousand feet. The specimens were taken from the very peak to two-thirds of the way down the mountain, along the winding road which leaves Highway 44 and runs thence to the tip in a general southwesternly direction" [Sandoval County]  
**Types:** Holotype in AMNH.
- t. ***Speyeria hesperis capitanensis*** R. Holland, 1988  
 Bull. Allyn. Mus. (115): 2-3, fig. 4 ♂ & ♀ D&V (top row holotype).  
**Original Combination:** *Speyeria atlantis capitanensis*  
**Type Locality:** "Padilla Point, crest of Capitan Ridge, Capitan Mts., Lincoln Co., NM." [New Mexico]  
**Types:** Holotype in AMNH.
- u. ***Speyeria hesperis nausicaa*** (W. H. Edwards, 1874)  
 Trans. Am. Entomol. Soc. 5(2): 104-105; figured by W. H. Edwards (1888), Butts. N. Am. 3(4): pl. Argynnis 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Nausicaa*  
**Type Locality:** "Rocky Canon, Arizona"; further defined as "Graham County" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 301.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 302, fig. 22 ♂ D&V.  
 = *arizonensis* (Elwes, 1889)  
 Trans. Entomol. Soc. Lond. (4) 1889[37](4): 546; cited Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): 752.  
**Original Combination:** [*Argynnis*? *aphrodite*] forma *Arizonensis*  
**Type Locality:** "Arizona (Wheeler Expedition)...also in Colorado"; suggested to be "Rocky Can[y]on, Arizona" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; defined as "Rock Canyon, Graham County, Arizona" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 301.  
**Types:** Neotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 19; this is the same specimen as the lectotype of *Argynnis nausicaa* W. H. Edwards, 1874, making *arizonensis* a junior objective synonym of *A. nausicaa*.
638. ***Speyeria hydaspe*** (Boisduval, 1869)  
 a. ***Speyeria hydaspe viridicornis*** (J. A. Comstock, 1925)  
 Bull. South. Calif. Acad. Sci. 24(3): 63-64.  
**Original Combination:** *Argynnis hydaspe* form *viridicornis*  
**Type Locality:** "Greenhorn Mountains, Calif." [Kern County, California]  
**Types:** Holotype in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 25, figs. 6 ♂ V.  
 b. ***Speyeria hydaspe hydaspe*** (Boisduval, 1869)  
 Anns. Soc. Entomol. Belg. 12: 60, no. 55; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 263, fig. 2200 ♂ D&V (lectotype), 2201 ♂ D&V, 2202 ♀ D&V.  
**Original Combination:** *Argynnis Hydaspe*  
**Type Locality:** "sud de la Californie; suggested to be "Yosemite Valley, Mariposa County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 34.  
**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 76, figs. 258 ♂ D, 259 ♂ V.  
 = *purpurascens* (Hy. Edwards, 1877)  
 Proc. Calif. Acad. Sci. [1]7(12): 170-171.  
**Original Combination:** *Argynnis monticola* Var. *purpurascens*  
**Type Locality:** "Siskiyou County, in the region surrounding Mt. Shasta, as well as in some parts of Oregon...at the Dalles, Oregon...at Soda Springs, Siskiyou County"; defined as "Soda Springs, Siskiyou County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21.  
**Types:** Lectotype (#4238) in AMNH, designated by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 78, as "type."  
 = *caliginosa* (J. A. Comstock, 1925)  
 Bull. South. Calif. Acad. Sci. 24(3): 66.  
**Original Combination:** *Argynnis hydaspe* ab. *caliginosa*  
**Type Locality:** "Modoc Co., Calif." [California]  
**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 26, fig. 3 ♂ D.
- c. ***Speyeria hydaspe tehama*** J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (12): 146, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ V, 28 ♀ V.



**Original Combination:** *Speyeria hydaspe tehama*

**Type Locality:** "California: Tehama County; Covelo Road, at Government Flat, 5900' elevation"

**Types:** Holotype in LACM.

d. ***Speyeria hydaspe davis*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (12): 147, figs. 29 ♂ D, 30 ♂ V (holotype); 31 ♀ D, 32 ♀ V.

**Original Combination:** *Speyeria hydaspe davis*

**Type Locality:** "California: Humboldt County; McClellan Mountain peat bog"

**Types:** Holotype in LACM.

e. ***Speyeria hydaspe rhodope*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 13-14; figured by W. H. Edwards (1875), Butts. N. Am. 2(2): pl. Argynnis 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Argynnis Rhodope*

**Type Locality:** "British Columbia"; defined as "the Fraser's River country, British Columbia...in the forest on the way from Bates' (commonly called the 100-mile house) to Beaver Lake" by W. H. Edwards (1875), Butts. N. Am. 2(2): [141-142]; suggested to be "Cariboo District, British Columbia" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; subsequently redefined as "on the way from Bates (commonly called 100-mile House) to Beaver Lake...the forested, broad river-bottoms of the Fraser River system" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 315. [British Columbia]

**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 21; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 314, fig. 27 ♂ D&V.

= *sakuntala* (Skinner, 1911)

Entomol. News 22(3): 108.

**Original Combination:** *Argynnis sakuntala*

**Type Locality:** "Kaslo, B. C." [British Columbia]

**Types:** Lectotype (#7035) in ANSP, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22.

Kondla (2001), Tax. Rep. Int. Lepid. Surv. 3(1): 3, determined this synonymy.

= *conquista* dos Passos & Grey, 1945

Am. Mus. Novit. (1297): 8, figs. 21 ♂ D, 22 ♂ V (holotype).

**Original Combination:** *Speyeria hydaspe conquista*

**Type Locality:** "Little Tesuque Canyon, near Santa Fe, New Mexico, 8000 feet" almost certainly in error [Santa Fe County]

**Types:** Holotype in AMNH.

As noted by Ferris (1981), in: Ferris and F. Brown (1981), Butts. Rocky Mtn. States: 311-312, *S. hydaspe* has not been recorded from New Mexico since the description of this taxon; the types are therefore assumed to be mislabeled specimens of *S. h. rhodope*.

= *skinners* (W. Holland, 1931)

Butt. Book (rev. ed.): 95, pl. 56, fig. 4 ♀ V.

**Original Combination:** *A[rgynnis]. skinners*

Proposed to replace *Argynnis sakuntala* Skinner, 1911, erroneously though to be preoccupied; a junior objective synonym of *sakuntala*.

f. ***Speyeria hydaspe minor*** dos Passos & Grey, 1947

Am. Mus. Novit. (1370): 21.

**Original Combination:** *S[peyeria]. (S[peyeria].) hydaspe minor*

dos Passos and Grey adopted *Argynnis hydaspe rhodope* form alt. *minor* McDunnough, 1927, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *minor* (McDunnough, 1927)

Can. Entomol. 59(7): 155.

**Original Combination:** [*Argynnis hydaspe*] *rhodope* form alt. *minor*

**Type Locality:** "Mt. McLean, B. C., (5000 feet)" [near Lillooet, British Columbia]

**Types:** "Holotype" (#2427) in CNC.

= *gregsoni* (Gunder, 1932)

Can. Entomol. 64(12): 281.

**Original Combination:** *Argynnis rhodope* tr. f. *gregsoni*

**Type Locality:** "Mount Washington (6000 ft.), Forbidden Plateau, V. I., B. C., Can." [Vancouver Island, British Columbia]

**Types:** "Holotype" in AMNH.

639. ***Speyeria mormonia*** (Boisduval, 1869)

a. ***Speyeria mormonia bischoffi*** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189-190, no. 2; figured by W. H. Edwards (1875), Butts. N. Am. 2(4): pl. Argynnis 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Argynnis Bischoffi*

**Type Locality:** "Alaska [sic], opposite Kodiak"; defined as "Kodiak" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22, and (1965), Trans. Am. Entomol. Soc. 91(3): 357; suggested to be "vic. Sitka, Baronoff I., Alaska" by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 316-319; subsequently thought to be "Anchorage" by Grey (1989), J. Lepid. Soc. 43(1): 6-7, based on recent samples. Neotype is from "Kodiak."

**Types:** Neotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 320-321, fig. 28 ♂ D&V; the same specimen was incorrectly designated lectotype by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; figured by Howe (1975), Butts. N. Am.: pl. 42, fig. 16 ♀ D&V.



- b. *Speyeria mormonia opis* (W. H. Edwards, 1874)  
 Trans. Am. Entomol. Soc. 5(2): 105-106; figured by W. H. Edwards (1875), Butts. N. Am. 2(4): pl. Argynnis 3, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.  
**Original Combination:** *Argynnis Opis*  
**Type Locality:** "Bald Mountain, Cariboo, British Columbia"  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 103, pl. 14, fig. 8 ♂ V, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 321, fig. 29a ♂ V.  
 = *jesmondensis* dos Passos & Grey, 1947  
 Am. Mus. Novit. (1370): 22.  
**Original Combination:** *Speyeria mormonia jesmondensis*  
 dos Passos and Grey adopted *Argynnis bischoffi* [sic!] *opis* form *jesmondensis* McDunnough, 1940, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1). Grey (1989), J. Lepid. Soc. 43(1): 6, determined this synonymy.  
 = ⚡"jesmondensis" (McDunnough, 1940)  
 Can. Entomol. 72(2): 25.  
**Original Combination:** [*Argynnis bischoffi* [sic!] *opis*] form *jesmondensis*  
**Type Locality:** "Jesmond, B. C... (3500 ft.)" [British Columbia]  
**Types:** "Holotype" (#4925) in CNC.
- c. *Speyeria mormonia washingtonia* (W. Barnes & McDunnough, 1913)  
 Contr. Nat. Hist. Lepid. N. Am. 2(3): 95, pl. 1, figs. 5 ♂ D (lectotype), 6 ♀ D, 7 ♂ V, 8 ♀ V.  
**Original Combination:** [*Argynnis*] *bischoffi* [sic!] *washingtonia*  
**Type Locality:** "Mt. Ranier [sic!], Wash. (7000 ft.)"; lectotype from "Paradise Valley." [Mt. Rainier, Pierce County]  
**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22.  
 = ⚡"ranierensis" (Gunder, 1932)  
 Can. Entomol. 64(12): 282.  
**Original Combination:** *Argynnis eurynome washingtonia* form *ranierensis*  
**Type Locality:** "Paradise Valley, Mount Ranier [sic!], Pierce Co., Washington" [Mt. Rainier]  
**Types:** "Holotype" in AMNH.  
 This name was spelled "rainierensis" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 145; an unjustified emendation.
- d. *Speyeria mormonia erinna* (W. H. Edwards, 1883)  
 Can. Entomol. 15(2): 33-34.  
**Original Combination:** *Argynnis Eurynome* Var. *Erinna*  
**Type Locality:** "Spokane Falls, W. T....Colorado...Mt. Hood, Oregon...Big Horn, Mont."; lectotype from "Spokane Falls, Spokane County, Washington."  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 102, pl. 56, fig. 7 ♂ V, as "type"; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 323, fig. 30 ♂ D&V.  
 = ⚡"cunninghami" (Owen, 1893)  
 Entomol. News 4(7): 246.  
**Original Combination:** [*Argynnis erinna*] aberrant form *cunninghami*  
**Type Locality:** "Klamath County, Oregon"  
**Types:** "Holotype" in USNM.
- e. *Speyeria mormonia eurynome* (W. H. Edwards, 1872)  
 Trans. Am. Entomol. Soc. 4(1/2): 61, 66-67, no. 6; figured by W. H. Edwards (1875), Butts. N. Am. 2(4): pl. Argynnis 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Argynnis Eurynome*  
**Type Locality:** "throughout Colorado"; defined as "Fairplay, South Park, Middle Park and California Gulch" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 159; subsequently defined as "Fair Play [sic!], Park County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 24.  
**Types:** Lectotype in CMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 24; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 328, fig. 32 ♂ D&V.  
 = *clio* (W. H. Edwards, 1874)  
 Trans. Am. Entomol. Soc. 5(2): 106-107.  
**Original Combination:** *Argynnis Clio*  
**Type Locality:** "plains at the Teton Mountains...Rocky Mountains"; neotype from "Moose P. O. Jackson Hole Wyo....Alt 6700'." [Teton County, Wyoming]  
**Types:** Neotype in AMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23; figured by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 331, fig. 33 ♂ D&V.  
 = ⚡"eris" (Igel, 1922)  
 Entomol. Z. 36(5): 20.  
**Original Combination:** *Arg[ynnis] eurynome* ab. *eris*  
**Type Locality:** "der Umgebung von Calgary (Alberta)...aus Montana"  
**Types:** "Holotype" in Igel collection.  
 = ⚡"benjamini" (Gunder, 1927)  
 Can. Entomol. 59(12): 287, no. 22, pl. B, figs. 22 ♂ D, 22a ♂ V (holotype).  
**Original Combination:** *Argynnis mormonia* tr. f. *benjamini*  
**Type Locality:** "Arangie, Idaho" [Arangee precinct, or Arange Peak, Fremont County]  
**Types:** "Holotype" in USNM.

- = *†*"brucei" (Gunder, 1927)  
Can. Entomol. 59(12): 287, no. 23, pl. B, figs. 23 ♀ D, 23a ♀ V ("holotype").  
**Original Combination:** *Argynnis eurynome* tr. f. *brucei*  
**Type Locality:** "Colorado"; defined in error as "Denver, Denver County, Colorado" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23. The correct type locality would be in the mountains west of Denver (A. Warren pers. comm. 2006).  
**Types:** "Holotype" in FMNH.
- = *†*"gunderi" (W. D. Field, 1936)  
J. Entomol. & Zool. 28(2): 23.  
**Original Combination:** *Argynnis eurynome* race *clio* tr. f. *gunderi*  
**Type Locality:** "Broadwater Co., Montana"  
**Types:** "Holotype" in USNM.
- = *†*"igeli" dos Passos & Grey, 1947  
Am. Mus. Novit. (1370): 23-24.  
**Original Combination:** *Speyeria mormonia eurynome* ab. *igeli*  
Proposed to replace *Argynnis eurynome* ab. *eris* Igel, 1922, Entomol. Z. 36(5): 20, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).
- = *†*"fieldi" dos Passos & Grey, 1947  
Am. Mus. Novit. (1370): 23-24.  
**Original Combination:** *Speyeria mormonia eurynome* ab. *fieldi*  
Proposed to replace *Argynnis eurynome* race *clio* tr. f. *gunderi* W. D. Field, 1936, J. Entomol. & Zool. 28(2): 23, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).
- f. ***Speyeria mormonia mormonia*** (Boisduval, 1869)  
Annls. Entomol. Soc. Belg. 12: 58-59, no. 51; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2192 ♂ D&V (lectotype), 2193 ♀ D&V.  
**Original Combination:** *Argynnis Mormonia*  
**Type Locality:** "sur les frontières de l'Oregon"; defined in error as "Salt Lake City, Salt Lake County, Utah" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; suggested to be "vic. Pyramid L. Nevada" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 145; subsequently defined as "Little Valley, W. of Washoe Lake, Washoe County, Nevada" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 33; lectotype labeled "Lac Sal."  
**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 22; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. 5 ♂ V, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 33, figs. 249 ♂ D, 250 ♂ V.
- = *†**astarte* (W. H. Edwards, 1862)  
Proc. Entomol. Soc. Philad. 1[7]: 221-222, no. 1.  
**Original Combination:** *Argynnis Astarte*  
**Type Locality:** "Oregon; California"; defined as "Monache Meadows, Tulare County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.  
**Types:** "Neotype" in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23; this is the lectotype of *Argynnis arge* (below).  
Preoccupied by *Argynnis astarte* E. Doubleday, 1848, in: Gen. diurn. Lepid. (1)(21): 181.
- = *†**montivaga* (Behr, 1864)  
In: W. H. Edwards, Proc. Entomol. Soc. Philad. 3[3]: 435, nos. 4 and 5.  
**Original Combination:** *Argynnis Montivaga*  
**Type Locality:** "always found in mountainous regions"; defined as "Monache Meadows, Tulare County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.  
**Types:** "Neotype" in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23; this is the lectotype of *Argynnis arge* (below), making this name a junior objective synonym.  
Preoccupied by *Argynnis montivaga* Behr, 1863, Proc. Calif. Acad. Sci. 3(1)([sig.]6): 84, no. 2.
- = *arge* (Strecker, 1878)  
Butts. & Moths N. Am., Comp. Syn. Cat.: 114, no. 210.  
**Original Combination:** [*Argynnis*] *Arge*  
**Type Locality:** "California"; defined as "Monache Meadows, Tulare County, California" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.  
**Types:** Lectotype in FMNH, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.  
J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 33, determined this synonymy.
- g. ***Speyeria mormonia obsidiana*** J. Emmel, T. Emmel & Mattoon, 1998  
Syst. W. N. Am. Butts. (12): 145-146, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.  
**Original Combination:** *Speyeria mormonia obsidiana*  
**Type Locality:** "California: Mono County; Sawmill Meadow, 9200' elevation, Glass Mountain"  
**Types:** Holotype in LACM.
- h. ***Speyeria mormonia artonis*** (W. H. Edwards, 1881)  
Trans. Am. Entomol. Soc. 9(1): 1-2.  
**Original Combination:** *Argynnis Artonis*  
**Type Locality:** "Colorado...Big Horn, Montana...Wells, Elko Co., Nevada"; defined as "Wells, Elko County, Nevada" by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23.  
**Types:** Lectotype in CMNH, designated by F. Brown (1965), Trans. Am. Entomol. Soc. 91(3): 327, fig. 31 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 12, fig. 13 ♂ V. dos Passos and Grey (1947), Am. Mus. Novit. (1370): 23, designated



a lectotype (#4258) in CMNH, but this was rescinded by dos Passos and Grey (1965), Trans. Am. Entomol. Soc. 91(3): 358; Brown's (1965) lectotype designation stands (Code Article 74.1.1).

= *†"rubyensis"* (Gunder, 1932)

Can. Entomol. 64(12): 282-283.

**Original Combination:** *Argynnis eurynome artonis* form *rubyensis*

**Type Locality:** "Franklin Slough, near Wright's Ranch, Ruby Valley, Elko Co., Nevada"

**Types:** "Holotype" in AMNH.

i. *Speyeria mormonia luskii* (W. Barnes & McDunnough, 1913)

Contr. Nat. Hist. Lepid. N. Am. 2(3): 95-96, pl. 1, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V, 4 ♀ V.

**Original Combination:** *A[rgynnis]. eurynome luskii*

**Type Locality:** "White Mts., Arizona"

**Types:** Lectotype in USNM, designated by dos Passos and Grey (1947), Am. Mus. Novit. (1370): 24.

Opler (1999), Field Guide W. Butts.: 282, suggested that this may be a species-level taxon.

Subfamily *Apaturinae* Boisduval, 1840

Gen. Ind. Europ. Lepid.: 24 (as "Apaturides"). Type-genus: *Apatura* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 280. I.C.Z.N. Opinion 232 placed *Apatura* on the *Official List of Generic Names in Zoology* as name no. 657. I.C.Z.N. Direction 99 placed Apaturidae on the *Official List of Family-group Names in Zoology* as name no. 229 (with incorrect date and bibliographic reference), and placed Apaturides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 267. I.C.Z.N. Direction 118 corrected the bibliographic citation as above

Genus *Asterocampa* Röber, 1916

In: Seitz, Grossschmett. Erde 5(241): 549. Type-species: *Apatura celtis* Boisduval & Le Conte, [1837], Hist. Lépid. Amér. sept. (19) pl. 57, figs. 1-4; (24): 210-211, by designation of D. Bates (1926), Entomol. News 37(5): 154.

640. *Asterocampa celtis* (Boisduval & Le Conte, [1835])

a. *Asterocampa celtis celtis* (Boisduval & Le Conte, [1835])

Hist. Lépid. Amér. sept. (19): pl. 57, figs. 1 ♂ D, 2 ♂ V, 3 larva, 4 pupa [1835], (24): 210-211 [1837].

**Original Combination:** *Apatura Celtis*

**Type Locality:** "Géorgie"; suggested to be "Screven County, Georgia" by Scudder (1872), Can. Entomol. 4(4): 84; defined as "around Savannah" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 187; neotype from "Savannah River, Burke County, Georgia."

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in CMNH, designated by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(5): 5, figs. 2 top ♂ D, 4 top ♂ V.

= *†lycaon* (Fabricius, 1793)

Entomol. Syst. 3(1): 228, no. 714; cited Jones' Icones 4, pl. 17, fig. 1.

**Original Combination:** *P[apilio]. S[atyri]. Lycaon*

**Type Locality:** "Mus. Dom Drury"

**Types:** Type(s) probably lost.

Preoccupied by *Papilio lycaon* Kühn, 1774, Kurz. Anl. Ins.: 21.

= *alicia* (W. H. Edwards, 1868)

Butts. N. Am. [1](2): [135-136], pl. Apatura 1, figs. 1 ♂ V, 2 ♂ D, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Apatura Alicia*

**Type Locality:** "New Orleans...in the vicinity" [Louisiana]

**Types:** Types lost.

= *†alb* (Strecker, 1878)

Butts. & Moths N. Am., Comp. Syn. Cat.: 145, no. 293a; cited W. H. Edwards (1875), Butts. N. Am. 2(3): pl. Apatura 1, figs. 4 ♀ V, 5 ♀ D.

**Original Combination:** [*Apatura Celtis*] ab. a. ♂♀ *Alb*.

**Type Locality:** Not stated; "Coalburgh, West Virginia" implied from W. H. Edwards' figures. [Kanawha County]

**Types:** "Types" are the specimens figured by W. H. Edwards, possibly in CMNH.

= *†inornata* (Wolcott, 1916)

Entomol. News 27(3): 98-99, pl. 4, fig. 6 ♂ D ("holotype").

**Original Combination:** *Chlorippe celtis* n. aberr. *inornata*

**Type Locality:** "near Ashland, Nebraska" [Saunders County]

**Types:** "Holotype" may be in UNL or OSU.

b. *Asterocampa celtis reinthali* Friedlander, 1988

J. Res. Lepid. 25(4): 242-243, pl. 20, figs. D ♂ D, E ♂ V (holotype), F ♀ D.

**Original Combination:** *Asterocampa celtis reinthali*

**Type Locality:** "Ocoee, Fla." [Orange County, Florida]

**Types:** Holotype in CMNH.

c. *Asterocampa celtis antonia* (W. H. Edwards, [1878])

Field & Forest 3(6): 103-105.

**Original Combination:** *Apatura Antonia*

**Type Locality:** "Texas and Arizona"; defined as "vicinity of Norse, Bosque County, Texas" by F. Brown (1967), Trans. Am.



Entomol. Soc. 93(3): 377-378.

**Types:** Lectotype in CMNH, designated by Reinthal (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 379, fig. 18 ♂ D&V.

= *montis* (W. H. Edwards, 1883)

Papilio 3(1): 7-8.

**Original Combination:** *Apatura Antonia* var. *Montis*

**Type Locality:** "Arizona...Mt. Graham...vicinity of Fort Grant, Cochise Co. [*sic!*], and on Graham Mountain" from the introduction to the paper. [Graham County]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 382, fig. 19 ♂ D&V.

‡"mexicana" Freidlander, 1987

J. Res. Lepid. 25(4): 250, 253.

**Original Combination:** [*Asterocampa celtis antonia*] form *mexicana*

**Type Locality:** "lower Rio Grande valley of Texas and southward"

**Types:** Apparently no types were designated.

This name seems inadvertently proposed, it certainly was not described; a *nomen nudum*.

641. ***Asterocampa leilia*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 103-104; figured by W. H. Edwards (1875), Butts. N. Am. 2(3): pl. Apatura 1, figs. 7 ♂ D, 8 ♂ V.

**Original Combination:** *Apatura Leilia*

**Type Locality:** "Camp Lowell and Sonoto [*sic!*] Valley, Arizona" [Sonoita Valley, Sant Cruz County]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 385, fig. 20 ♂ D&V.

= *cocles* (Lintner, [1885])

Papilio 4(7/8): 141-142, no. 30.

**Original Combination:** *Apatura Cocles*

**Type Locality:** "Brownsville, Texas...Hidalgo", implied from the introduction to the paper; defined as "Hidalgo, Texas" by Friedlander (1987), J. Res. Lepid. 25(4): 255. [Hidalgo County]

**Types:** Lectotype in CMNH, designated by Friedlander (1987), J. Res. Lepid. 25(4): 255.

This name was mentioned by W. H. Edwards [1885], Trans. Am. Entomol. Soc. 11(3/4): 286, no. 250, without description or indication; a *nomen nudum*.

642. ***Asterocampa clyton*** (Boisduval & Le Conte, [1835])

a. ***Asterocampa clyton clyton*** (Boisduval & Le Conte, [1835])

Hist. Lepid. Amér. sept. (19): pl. 56, figs. 1 ♂ D, 2 ♂ V, 3 larva, 4 pupa [1835]; (24): 208-209 [1837].

**Original Combination:** *Apatura Clyton*

**Type Locality:** "les parties méridionales des États-Unis"; suggested to be "Georgia" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 188; neotype from "Savannah River, Burke County, Georgia."

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in CMNH, designated by Gatrell (1999), Tax. Rep. Int. Lepid. Surv. 1(5): 5, fig. 6 bottom ♂ D.

= *proserpina* (Scudder, 1868)

Proc. Boston Soc. Nat. Hist. 11: 401.

**Original Combination:** [*Apatura*] *Proserpina*

**Type Locality:** "Iowa"; further defined as "New Jefferson...anywhere along a devious, hundred mile route beginning at Denison, including Wall Lake and Grant City, and terminating at New Jefferson" by Scudder [1870], Trans. Chicago Acad. Sci. 1(2): 332, no. 16, 338.

**Types:** Type(s) apparently lost (not in MCZ).

= *ocellata* (W. H. Edwards, 1876)

Butts. N. Am. 2(5): [245-246], pl. Apatura 2, figs. 1 ♂ V, 2 ♂ D, 3 ♀ V, 4 ♀ D.

**Original Combination:** [*Apatura Clyton*] var. *Ocellata*

**Type Locality:** "Coalburgh, West Virginia" implied from the text. [Kanawha County]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 387, fig. 21 ♀ D&V.

= ‡"nig" (Strecker, 1878)

Butts. & Moths N. Am., Comp. Syn. Cat.: 146, no. 294b.

**Original Combination:** [*Apatura Clyton*] ab. b. ♂ Nig

**Type Locality:** "Berks Co., Penna." [Pennsylvania]

**Types:** "Holotype" in FMNH.

‡"apunctus" Scott, 1981

Papilio (n.s.) 1: 5.

**Original Combination:** *Apatura clyton* form *apunctus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

‡"geneumbrosa" Scott, 1986

Butts. N. Am.: 256, no. 142.

**Original Combination:** [*Apatura clyton*] form *geneumbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

b. ***Asterocampa clyton flora*** (W. H. Edwards, 1876)

Butts. N. Am. 2(5): [247-248], figured by W. H. Edwards (1891), Butts. N. Am. 3(11): pl. Apatura 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** [*Apatura Clyton*] var. *Flora*

**Type Locality:** "Palatka, Florida" [Putnam County]

- Types:** Lectotype in CMNH, designated by F. Brown and Reinthal (1967), *in*: F. Brown, Trans. Am. Entomol. Soc. 93(3): 389, fig. 22 ♂ D&V.
- c. **Asterocampa clyton texana** (Skinner, 1911)  
Trans. Am. Entomol. Soc. 37(3): 214, 215.  
**Original Combination:** [*Chlorippe clyton*] form/var. *texana*  
**Type Locality:** "Round Mountain, Texas...near Corpus Christi"; holotype from "Round Mountain." [Blanco County]  
**Types:** Syntype (#7038) in ANSP.  
= *subpallida* (W. Barnes & McDunnough, 1913)  
Contr. Nat. Hist. Lepid. N. Am. 2(3): 99, pl. 2, figs. 7 ♂ D, 8 ♀ D, 9 ♀ V.  
**Original Combination:** *C[hlorippe]. clyton subpallida*  
**Type Locality:** "Babaquivera [*sic*] Mts., Pima Co., Arizona" [Baboquivari Mts.]  
**Types:** Lectotype in USNM, designated by Friedlander (1987), J. Res. Lepid. 25(4): 263.
- d. **Asterocampa clyton louisiana** D. Stallings & Turner, 1947  
Entomol. News 58(2): 38.  
**Original Combination:** *Asterocampa clyton louisiana*  
**Type Locality:** "Pharr, Texas" [Hidalgo County]  
**Types:** Holotype in USNM.
643. **Asterocampa idyja** (Geyer, [1828])  
*In*: Hübner, Samml. exot. Schmett. 3: pl. [13], figs. 1 ♂ D, 2 ♂ V; 3 ♀ D 4 ♀ V ("type").  
**Original Combination:** *Doxocopa Idyja*  
**Type Locality:** "Cuba"  
**Types:** Location of type(s) not known, presumed lost.  
= *herse* (Fabricius, 1793)  
Entomol. Syst. 3(1): 229, no. 718.  
**Original Combination:** *P[apilio]. S[atyri]. Herse*  
**Type Locality:** "Dom Drury"  
**Types:** Type(s) apparently lost.  
Preoccupied by *Papilio herse* Hufnagel, 1766, Berlin Mag. 2: 84. Friedlander (1987), J. Res. Lepid. 25(4): 272, suggested that this name may best be considered a *nomen dubium*.  
= *padola* (Fruhstorfer, 1912)  
Entomol. Rdsch. 29(2): 14.  
**Original Combination:** *Doxocopa idyja padola*  
**Type Locality:** "Haiti"  
**Types:** Holotype in ZMHB.
- a. **Asterocampa idyja argus** (H. Bates, 1864)  
Entomol. Mon. Mag. 1(6): 130-131, no. 60.  
**Original Combination:** *Apatura Argus*  
**Type Locality:** "Motagua Valley, Guatemala"; suggested to be "El Progreso" by Friedlander (1987), J. Res. Lepid. 25(4): 273.  
**Types:** Holotype (#Rh9126) in BMNH.  
= *armilla* (Fruhstorfer, 1912)  
Entomol. Rdsch. 29(2): 14.  
**Original Combination:** [*Doxocopa argus*] forma *armilla* nova  
**Type Locality:** Not stated; lectotype from "Honduras."  
**Types:** Lectotype in ZMHB, designated by Friedlander (1987), J. Res. Lepid. 25(4): 273.

#### Genus *Doxocopa* Hübner, [1819]

- Verz. bekannt. Schmett. (4): 49-50. Type-species: *Papilio agathina* Cramer, 1777, Uidl. Kapellen 2(14): 109, pl. 167, figs. E, F; (16): 147 (index), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 30.
- = *Catargyria* Hübner, [1823]  
Samml. exot. Schmett. 2: pl. [64]. Type-species: *Catargyria laura* Hübner, [1823], Samml. exot. Schmett. 2: pl. [64], figs. 1, 2 (not 3, 4) (= *Papilio laure* Drury, 1773, Ill. Nat. Hist. 2: 31, index, pl. 17, figs. 5, 6; subspecies), by monotypy.
- = *Chlorippe* E. Doubleday, [1845]  
List Spec. Lepid. Brit. Mus. 1: 108. Type-species: *Nymphalis laurentia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, by designation of Scudder (1875), Bull. Buffalo Soc. Nat. Sci. 2(4): 248.  
= *Chlorippe* Boisduval, 1870  
Consid. Lépid. Guat.: 47. Type-species: *Nymphalis laurentia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134. Preoccupied by *Chlorippe* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 108, and a junior objective synonym of that name.
- = *Celtiphaga* W. Barnes & Lindsey, 1922  
Ann. Entomol. Soc. Am. 15(1): 92. Type-species: *Nymphalis laurentia* Godart, [1824], *in*: Ency. méth. 9(Ins.)(2): (335), 376, no. 86, as a replacement name. Proposed to replace *Chlorippe* E. Doubleday, 1845, erroneously thought preoccupied, and a junior objective synonym of that name.
644. **Doxocopa pavon** (Latreille, [1809])  
*In*: Humboldt and Bonpland, Voy Rég. Équinox., Pt. 2 (Obs. Zool.) 1(4): 197-198, [36], pl. 18, figs. 3 ♂ D, 4 ♂ V.

**Original Combination:** *Nymphalis Pavon*

**Type Locality:** "le bois ombragés de Loxa" [Loja, Ecuador]

**Types:** Type(s) may be in MNHP or BMNH.

This name was spelled "pavonii" by Herrich-Schäffer, [1858], Samml. neuer. Aussereurop. Schmett. 1 (2) (6): pl. 24, figs. 101, 102; an unjustified emendation.

a. **Doxocopa pavon theodora** (Lucas, 1857)

*In:* Sagra, Hist. Cuba: 7(2): 575-576, pl. 16, figs. 4 ♀ D, 4a ♀ V.

**Original Combination:** *Apatura Theodora*

**Type Locality:** "Ferdinand de Jagua" [Cuba]

**Types:** Location of type(s) not known, possibly in MNHP.

= *mentas* (Boisduval, 1836)

Consid. Lépid. Guat.: 48.

**Original Combination:** *Chlorippe Mentas*

**Type Locality:** "Honduras"

**Types:** Type(s) probably in MNHP.

= *cuellina* Fruhstorfer, 1907

Stettiner Entomol. Ztg. 68(2): 250.

**Original Combination:** [*Chlorippe*] *pavon cuellina*

**Type Locality:** "Mexiko"

**Types:** Location of type(s) not known.

= *inumbatus* Fruhstorfer, 1907

Stettiner Entomol. Ztg. 68(2): 250.

**Original Combination:** [*Chlorippe*] *pavon cuellina*

**Type Locality:** "Paraguay"

**Types:** Location of type(s) not known.

= *subtuniformis* (Röber, 1916)

*In:* Seitz, Grossschmett. Erde 5(241): 546.

**Original Combination:** [*Chlorippe pavon*] *subtuniformis*

**Type Locality:** Not stated.

**Types:** Location of type(s) not known.

645. **Doxocopa laure** (Drury, 1773)

a. **Doxocopa laure laure** (Drury, 1773)

Ill. Nat. Hist. 2: 31, index, pl. 17, figs. 5 ♂ D, 6 ♂ V.

**Original Combination:** *Papilio Nymph[alis]. Phal[eratus] Laure*

**Type Locality:** "Bay of Honduras"

**Types:** Type(s) probably lost.

= *acca* (C. Felder & R. Felder, 1867)

Reise Novara Zool. (3): 435, no. 703, pl. 57, fig. 2 ♂ D.

**Original Combination:** *Apatura Acca*

**Type Locality:** "Mexico"

**Types:** Type(s) possibly in BMNH.

= *laurina* Bryk, 1938

Lepid. Cat. 86: 349; cited *Chlorippe laura* (*sensu* Boisduval (1870), Lepid. Guat.: 47), and *Apatura laura* (*sensu* Wood (1874), Insects Abroad: 614, fig. 354).

**Original Combination:** [*Doxocopa linda*] *laurina*

**Type Locality:** "Guatemala" and "Nicaragua" implied from the citations.

**Types:** Location of type(s) not known.

= ♀ "majugena" (Fruhstorfer, 1907)

Stettiner Entomol. Ztg. 68(2): 245.

**Original Combination:** [*Catargyria laure mileta*] ♀ forma *majugena*

**Type Locality:** "Honduras"

**Types:** Location of type(s) not known.

Subfamily **Biblidinae** Boisduval, 1833

Nouv. Annl. Mus. Hist. Nat., Paris 2(2): 201 (as "Biblides"). Type-genus: *Biblis* [Fabricius], 1807, *in:* Illiger, Mag. f. Insektenk. 6: 281, no. 13.

Tribe **Biblidini** Boisduval, 1833

Genus **Biblis** [Fabricius], 1807

*In:* Illiger, Mag. f. Insektenk. 6: 281, no. 13. Type-species: *Papilio biblis* Fabricius, 1775, Syst. Entomol.: 505, no. 261 (= *Papilio hyperia* Cramer, 1779, Uitl. Kapellen 3(20): 74, pl. 236, figs. E, F; (24): 175 (index); homonym), by tautonymy.

= ♀ *Zonaga* Billberg, 1820

Enum. Ins. Mus. Billb.: 78. Type-species: *Papilio biblis* Fabricius, 1775, Syst. Entomol.: 505, no. 261 (= *Papilio hyperia* Cramer, 1780, Uitl. Kapellen 3(20): 74, pl. 236, figs. E, F; (24): 175 (index); homonym), by monotypy. A junior objective synonym of *Biblis* [Fabricius], 1807.



\*646. **Biblis hyperia** (Cramer, 1779)

Uitl. Kapellen 3(20): 74, pl. 236, figs. E ♂ D, F ♂ V; (24): 175 (index).

**Original Combination:** *Papilio* [ililo]. *Nymph* [alis]. *Phaler* [ata]. *Hyperia*

**Type Locality:** "Eiland St. Thomas in de Westindien" "l'Isle de St. thomas, aux indes Occidentales" [United States Virgin Islands]

**Types:** Type(s) probably lost.

= *‡biblis* (Fabricius, 1775)

Syst. Entomol.: 505, no. 261.

**Original Combination:** *P* [apilio]. *N* [ymphalis]. *P* [halerata]. *Biblis*

**Type Locality:** "America"

**Types:** Probable holotype in ZMUC.

Preoccupied by *Papilio biblis* Drury, 1773, Ill. Nat. Hist. 1: 9, pl. 4, fig. 2; 2: index.

= *‡thadana* Godart, [1819]

*In:* Enc. méth. 9(Ins.)(1): 326, no. 1.

**Original Combination:** *Biblis Thadana*

This name was proposed to replace *Papilio biblis* Fabricius, 1775, on the basis of tautonymy; a junior objective synonym. Grimshaw (1897), Trans. R. Soc. Edinburgh 39, part I(1): 5, recorded one ♀ "type" from the Dufresne collection in RSME; this cannot be a type since *thadana* is a replacement name.

a. **Biblis hyperia aganisa** Boisduval, 1836

Spec. gén. Lépid. 1: pl. 9 [=5B], fig. 7 ♂ V, explication plate.

**Original Combination:** *Biblis Aganisa*

**Type Locality:** "Java" in error. Godman and Salvin (1893), Biol. centr.-amer., Lepid. Rhop. 1(26): 276, stated that this was a transposition of "Mexique" as given for *Melanitis ceryx*, figured on the same plate, and more probably from "Java."

**Types:** Type(s) may be in MNHP or BMNH.

= *pasira* (E. Doubleday, [1848])

*In:* Gen. diurn. Lepid. (1): pl. 31, fig. 2 [1848]; (2)(45): 406 (1849).

**Original Combination:** *Didonis Pasira*

**Type locality:** "Guiana"

**Types:** Holotype in BMNH.

‡"quautemotzin" (Arias, 1968)

Exp. cient. esp. siglo XVIII. Exp. Bot. Nueva España: 395.

**Original Combination:** *Miahuaxochitl Ququhtemotzin*

Proposed without a description; a *nomen nudum*.

‡"ququhtemotzin" (Arias, 1968)

Exp. cient. esp. siglo XVIII. Exp. Bot. Nueva España: pl. [109], figs. 5-6.

**Original Combination:** *Papilio Quautemotzin*

Proposed without a description; a *nomen nudum*.

Tribe **Eurytelini** E. Doubleday, 1845

List Spec. Lepid. Ins. Brit. Mus. (1): 143, no. 10 (as "Eurytelidae"). Type-genus: *Eurytela* Boisduval, 1833, Nouv. Annls. Mus. Hist. Nat., Paris 2(2): 202.

Genus **Mestra** Hübner, [1825]

Samml. exot. Schmett. 2: pl. [45]. Type-species: *Mestra hypermnestra* Hübner, [1825], Samml. exot. Schmett. 2: pl. [45], figs. 1, 2, 3, 4, by monotypy.

= *Cystineura* Boisduval, 1836

Spec. gén. Lépid. 1: pl. 9 [=5B], fig. 1. Type-species: *Papilio hersilia* Fabricius, 1777, Gen. Ins.: 265 (= *Papilio dorcas* Fabricius, 1775,

Syst. Entomol.: 508, no. 275; subspecies), by monotypy.

647. **Mestra amymone** (Ménétriés, 1857)

Enum. corp. anim. (2): 123-124, no. 1306, pl. 9, fig. 6 ♂ D&V.

**Original Combination:** *Cystineura amymone*

**Type Locality:** "Nicaragua"

**Types:** Syntypes in ZIN.

This taxon was considered a subspecies of *Mestra dorcas* Fabricius, 1775, Syst. Entomol.: 508, no. 275, by Lamas and Small (1992), *in:* Quintero and Aiello (Eds.), Ins. Panama Mesoamer.: 556, A. Warren *et al.* (1998), J. Lepid. Soc. 52(1): 61, and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 235.

Tribe **Catonephelini** D'Almeida, 1932 (1865)

Lambillionea 32(8/9): 168. Type-genus: *Catonephele* Hübner, [1819], Verz. bekannt. Schmett. (3): 40. This family-group name was in competition with "Epicalidae" Guénée, 1865, *in:* Vinson, Voy. Madagascar, Annexe F: 28. D'Almeida employed this name in a tribal sense, as "Epicaliini ou Catonepheliini." Orfila (1952), An. Soc. Cient. Argent. 154(3): 103, proposed that this name replace "Epicaliini" [*sic!*] because *Catonephele* Hübner, [1819], is senior to *Epicalia* E. Doubleday, [1845]. Code Article 40.2 clearly provides that such action taken before 1961, and becoming widely accepted, is valid.

Genus *Eunica* Hübner, [1819]

Verz. bekannt. Schmett. (4): 61. Type-species: *Papilio monima* Stoll, 1782, Uitl. Kapellen 4(33): 202, pl. 387, figs. F, G; (34): 250 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci. 10(2): 171, no. 426.

= *Evonyma* Hübner, [1819]

Verz. bekannt. Schmett. (4): 61. Type-species: *Papilio amelia* Cramer, 1777, Uitl. Kapellen 2 (12): 61, pl. 136, figs. B, C; (16): 147 (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 176, no. 458.

= *Eunice* Geyer, 1832

In: Hübner, Zutr. Samml. Exot. Schmett. 4: 39, no. 392. Type-species: *Eunice taurione* Geyer, 1832, in: Hübner, Zutr. Samml. Exot. Schmett. 4: pl. [135], figs. 783, 784; 39, no. 392 (= *Nymphalis marsolia* Godart, [1824], Ency. méth. 9(Ins.) (2): 418, no. 214; synonym), by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134. Preoccupied by *Eunice* Rafinesque, 1815, Analyse Nat.: 135, and *Eunice* Schinz, 1822, in: Cuvier, Thierreich 2: 310.

= *Callianira* E. Doubleday, [1847]

In: Gen. diurn. Lepid. (1) (14): pl. 28, fig. 1. Type-species: *Callianira alcmena* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1) (14): pl. 28, fig. 1, by monotypy. Preoccupied by *Callianira* Péron & Lesuer, 1810, Ann. Mus. Hist. Nat., Paris 15(85): 65, and *Callianira* Hübner, [1819], Verz. bekannt. Schmett. (3): 38.

= *Faunia* Poey, 1847

Mem. Soc. R. Econ. Habana (2)3(3): 178. Type-species: *Papilio orphise* Cramer, 1775, Uitl. Kapellen 1(4): 67, pl. 42, figs. E, F; (8): 153 (index), by monotypy. Preoccupied by *Faunia* Robineau-Desvoidy, 1830, Mem. pres. Acad. Sci., Paris 2: 270.

= *Amycla* E. Doubleday, 1849

In: Gen. diurn. Lepid. (1) (28): 223. Type-species: *Eunice taurione* Geyer, 1832, in: Hübner Zutr. Samml. Exot. Schmett. 4: pl. [135], figs. 783, 784; 39, no. 392 (= *Nymphalis marsolia* Godart, [1824], Ency. méth. 9(Ins.) (2): 418, no. 214; synonym), by monotypy. Preoccupied by *Amycla* Rafinesque, 1815, Analyse Nat.: 118.

= *Libythina* C. Felder, 1861

Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 49, no. 101. Type-species: *Libythea cuvierii* Godart, 1819, Ency. méth. 9(Ins.) (1): 171, no. 6, by monotypy.

648. *Eunica monima* (Stoll, 1782)

Uitl. Kapellen 4(33): 202, pl. 387, figs. F ♂ D, G ♂ V; (34): 250 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phaler[ata] Monima*

**Type Locality:** "Kust van Guinea by Della Mina" "Côte de Guinée, pres de Della Mina" in error.

**Types:** Type(s) probably lost.

= *myrto* (Godart, [1824])

In: Enc. méth. 9(Ins.) (2): 418, no. 213.

**Original Combination:** *Nymphalis Myrto*

Proposed to replace *Papilio monima* Stoll, 1782, erroneously though preoccupied; a junior objective synonym of *monima*.

= *modesta* H. Bates, 1864

Entomol. Mon. Mag. 1(5): 113, no. 45.

**Original Combination:** *Eunica Modesta*

**Type Locality:** "Guatemala"; syntypes from "Centr. Valleys."

**Types:** Syntypes (#Rh9308, 9475) in BMNH; figured by Jenkins (1990), Bull. Allyn Mus. (131): figs. 136 ♂ D, 137 ♂ V, 138 ♀ D, 139 ♀ V.

= *fairchildi* D. Bates, 1935

Bull. Mus. Comp. Zool. 78(2): 177, no. 81.

**Original Combination:** *Eunica pusilla fairchildi*

**Type Locality:** "La Milpa, Cienfuegos Bay, Sta. Clara" [Cuba]

**Types:** Holotype (#16604) in MCZ.

= *petraea* Fabricius, 1938

In: Bryk, Syst. Glossat.: 87-88, no. 14.

**Original Combination:** *L[imenitis]. Petraea*

**Type Locality:** "America meridionali Dom. Smidt Mus. Dom. De Sehestedt"; suggested to be "probably from St. Croix, Virgin Islands" by F. Brown (1988), Trans. Am. Entomol. Soc. 113(4): 441. [U. S. Virgin Islands]

**Types:** Syntype in ZMUC.

The placement of this name here remains tentative until the syntype is examined. F. Brown (1988), *ibid.*, and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Checkl. Part 4A: 237, considered it a *nomen dubium*.

= *"habanae"* Seitz, 1915

In: Seitz, Grossschmett. Erde 5(202): pl. 100Ac, figs. [5] ♀ V, [6] ♂ D (1914); (203): 485.

**Original Combination:** [*Eunica monima*] *habanae* form nov.

**Type Locality:** "Cuba"; "Havana" implied from the formation of the name.

**Types:** Location of types not known.

The text clearly indicates that this taxon was described as an individual variant.

649. *Eunica tatila* (Herrich-Schäffer, [1855])

a. *Eunica tatila tatila* (Herrich-Schäffer, [1855])

Samml. neuer. Aussereurop. Schmett. 1(2): 54; 1(2) (4): pl. 17, figs. 69 ♂ D, 70 ♂ V, 71 ♀ D, 72 ♀ V.

**Original Combination:** *Cybdelis Tatila*

**Type Locality:** "Am Mer" implied from the text, "Mexico" from the plate caption.

**Types:** Syntypes possibly in BMNH.

= *caerula* Godman & Salvin, 1877  
Proc. Zool. Soc. Lond. 1877(1): 64, no. 12.

**Original Combination:** *Eunica Caerula*

**Type Locality:** "Guatemala"; syntypes from "Rio Polochic."

**Types:** Syntypes (#Rh9307) in BMNH.

**b. *Eunica tatila tatilista* Kaye, 1926**

Trans. Entomol. Soc. Lond. 73(3/4): 473-474, no. 22.

**Original Combination:** *Eunica tatila tatilista*

**Type Locality:** "Rae Town" [Jamaica]

**Types:** Holotype in MGCL.

**Genus *Myscelia* E. Doubleday, [1845]**

List Spec. Lepid. Brit. Mus. 1: 88. Type-species: *Papilio orsis* Drury, 1782, Ill. Nat. Hist. 3: 20, index, pl. 16, fig. 3, by designation of W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(1): 15.

= *‡Sagaritis* Hübner, [1821]

Samml. exot. Schmett. 2: pl. [43]. Type-species: *Sagaritis orseis* Hübner, [1821], Samml. exot. Schmett. 2: pl. [43], figs. 1, 2, 3, 4 (= *Papilio orsis* Drury, 1782, Ill. Nat. Hist. 3: 20, index, pl. 16, fig. 3), by monotypy. Preoccupied by *Sagaritis* Billberg, 1820, Enum. Ins. Mus. Billberg: 134.

**650. *Myscelia ethusa* (Doyère, [1840])**

**a. *Myscelia ethusa ethusa* (Doyère, [1840])**

In: Cuvier, Règne Animal. (3rd ed.) Ins. 2(10): pl. 138, figs. 3, 3b ♂ D&V.

**Original Combination:** *Cybdelis Ethusa*

**Type Locality:** Not stated; "Mexico" implied by Jenkins (1984), Bull. Allyn Mus. (87): 41.

**Types:** Syntype in USNM.

= *rogenhoferi* R. Felder, 1869

Verh. zool.-bot. Ges. Wien 19: 472, no. 22.

**Original Combination:** *Myscelia Rogenhoferi*

**Type Locality:** "Huahuapan" [Huajuapán de León, Oaxaca, Mexico]

**Types:** Location of type(s) not known, possibly in BMNH.

**\*651. *Myscelia cyananthe* (C. Felder & R. Felder, 1867)**

Reise Novara Zool. (3): 408-409, no. 619, pl. 53, figs. 6 ♂ D, 7 ♂ V.

**Original Combination:** *Faunia Cyananthe*

**Type Locality:** "Mexico"

**Types:** Holotype (#Rh9291) in BMNH; figured by Jenkins (1984), Bull. Allyn Mus. (87): figs. 70 ♂ D, 71 ♂ V.

**a. *Myscelia cyananthe skinneri* Mengel, 1894**

Entomol. News 5(3): 96.

**Original Combination:** *Myscelia skinneri*

**Type Locality:** "Baymena, Sinoloa [*sic!*], Mex." [Sinaloa, Mexico]

**Types:** Lectotype in RPM, designated by Fox (1942), Read. Pub. Mus., Sci. Pubs. 4: pl. 1, fig. 1 ♂ D; "types" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 74, figs. 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V.

**Tribe *Ageroniini* E. Doubleday, 1847**

In: Gen. diurn. Lepid. (1)(8): 81; pl. 10 (as "Ageronidae"). Type-genus: *Ageronia* Hübner, [1819], Verz. bekannt. Schmett. (3): 42.

**Genus *Hamadryas* Hübner, [1806]**

Samml. exot. Schmett. 1: pl. [47]. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by monotypy.

= *‡Apatura* [Illiger], [1807]

Allg. Lit.-Zeit. 2(303): 1181. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by monotypy. I.C.Z.N. *Opinion* 232 suppressed this name and placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 37.

= *Ageronia* Hübner, [1819]

Verz. bekannt. Schmett. (3): 42. Type-species: *Papilio chloe* Stoll, 1787, Aanhangs. Werk Uitl. Kapellen Pieter Cramer (1): 22, pl. 5, figs. 1, 1a; (3): [182] (index), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 104-105, no. 34.

= *‡Philocala* Billberg, 1820

Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio amphinome* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 779-780, no. 176, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 248, no. 851. A junior objective synonym of *Hamadryas*.

= *Peridromia* Lacordaire, 1833

Annls. Soc. Entomol. Fr. [1]2: 392. Type-species: *Papilio arethusa* Cramer, 1775, Uitl. Kapellen 1(7): 122-123, pl. 77, figs. E, F; (8): 151 (index) (= *Papilio laodamia* Cramer, 1777, Uitl. Kapellen 2(11): 49, pl. 130, fig. A; (16): 149 (index); homonym), by designation of Lamas (1980), J. Lepid. Soc. 34(2): 85.

= *‡Peridromia* Boisduval, [1836]



Spec. gén. Lépid. 1: pl. 23 [= 7C], fig. 5. Type-species: *Papilio arethusa* Cramer, 1775, Uitl. Kapellen 1(7): 122, pl. 77, figs. E, F; (8): 151 (index) (= *Papilio laodamia* Cramer, 1777, Uitl. Kapellen 2(11): 49, pl. 130, fig. A; (16): 149 (index); homonym), by monotypy. Preoccupied by *Peridromia* Lacordaire, 1833, Annls. Soc. Entomol. Fr. [1]2: 392.

= *Amphichlora* C. Felder, 1861

Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 19, under *Ageronia*, no. 37. Type-species: *Papilio feronia* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 95, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 109-110, no. 63.

\*652. **Hamadryas februa** (Hübner, [1823])

Samml. exot. Schmett. 2: pl. [41], figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Ageronia februa*

**Type Locality:** Not stated; listed as "Amer. Mer. Et Centr., Mexico" by W. F. Kirby (1908), in: P. Wytzman, Facsimile ed. Hübner Samml. exot. Schmett. 3(addit. notes): 31; suggested to be "Amazonas gebiet oder dem nördlichen Theil von Brasilien" by Fruhstorfer (1916), in: Seitz, Grossschmett. Erde 5(206): 539.

**Types:** Type(s) probably lost.

= *atinia* ([Fruhstorfer], 1914)

In: Seitz, Grossschmett. Erde 5(192): pl. 105c, fig. [3] ♂ D (1914); (206): 540 (1916) (as *Ageronia februa atinia*).

**Original Combination:** [*Ageronia februa*] *atinia*

**Type Locality:** "süd brasilianische...Amazonasgebietes...Rio Grande do Sul und Sta. Catharina"

**Types:** Syntypes (15-108) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 22, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V. Fruhstorfer is considered the author of the name, as given on the plate.

= *sabatia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *sabatia*

**Type Locality:** "Mato Grosso, Cuiabá" [Brazil]

**Types:** Syntypes in BMNH.

= *sellasia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *sellasia*

**Type Locality:** "Paraguay"

**Types:** Syntypes in BMNH.

‡"maina" L. Martin, Talbot & Jullien, [1923]

Fruhstorfer Colln.: 54.

**Original Combination:** *Ageronia ferox maina*

Proposed without description or indication; a *nomen nudum*.

a. **Hamadryas februa ferentina** (Godart, [1824])

Enc. méth. 9(Ins.) (2): 428, no. 248.

**Original Combination:** *Nymphalis ferentina*

**Type Locality:** "Indes Orientales" in error.

**Types:** Location of type(s) not known.

Proposed for the figures in Stoll (1781), Uitl. Kapellen 4(31): 140, pl. 362, figs. A ♂ D, B ♂ V, from "Indes Orientales."

= *gudula* ([Fruhstorfer], 1914)

In: Seitz, Grossschmett. Erde 5(192): pl. 105d, fig. [4] ♂ D (1914); (206): 539 (1916) (as *Ageronia februa gudula*).

**Original Combination:** [*Ageronia februa*] *gudula*

**Type Locality:** "westliche Mexico"; syntype from "Texas."

**Types:** Syntype in BMNH; figured in Jenkins (1983), Bull. Allyn Mus. (81): 24, figs. 11 ♀ D, 12 ♀ V.

Fruhstorfer is considered the author of the name, as given on the plate.

= *sodalia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *sodalia* form nov.

**Type Locality:** "östlichen und südlichen Mexiko"

**Types:** Syntype in BMNH.

= *hierone* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *hierone*

**Type Locality:** "Halbinsel Yucatan" [Mexico]

**Types:** Location of type(s) not known.

= *fundania* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *fundania*

**Type Locality:** "Honduras"; further defined as "San Pedro Sula" by Jenkins (1983), Bull. Allyn Mus. (81): 24.

**Types:** Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 24, figs. 9 ♂ D, 10 ♂ V.

= *icilia* (Fruhstorfer, 1916)

In: Seitz, Grossschmett. Erde 5(206): 540.

**Original Combination:** [*Ageronia februa*] *icilia*

**Type Locality:** "Trinidad"; defined as "Trinidad, Belmont" by Jenkins (1983), Bull. Allyn Mus. (81): 24.

**Types:** Syntype in BMNH.

- \*653. **Hamadryas amphichloe** (Boisduval, 1870)  
 Consid. Lépid. Guat.: 27.  
**Original Combination:** *Ageronia Amphichloe*  
**Type Locality:** "Guayaquil" [Ecuador]  
**Types:** Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 29, figs. 13, ♂ D, 14, ♂ V.  
 = *tegyra* (Fruhstorfer, 1916)  
*In:* Seitz, Grossschmett. Erde 5(206): 541.  
**Original Combination:** [*Ageronia ferox*] *tegyra*  
**Type Locality:** "Ecuador"  
**Types:** Location of type(s) not known.
- a. **Hamadryas amphichloe diasia** (Fruhstorfer, 1916)  
*In:* Seitz, Grossschmett. Erde 5(206): 541.  
**Original Combination:** [*Ageronia ferox*] *diasia*  
**Type Locality:** "Porto Rico und Haiti"  
**Types:** Location of type(s) not known, possibly lost.  
 = *antillana* (A. Hall, 1925)  
 Entomol. 58(8)[747]: 187, no. 72.  
**Original Combination:** *Ageronia februa antillana*  
**Type Locality:** "most wooded places up to 2000 feet" implied from the text, "Hispaniola" from the title of the paper; syntypes from "Puerto Plata, La Cumbra, 1600 ft." and "Santo Domingo." [Dominican Republic]  
**Types:** Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 32, figs. 21 ♂ D, 22 ♂ V, 23 ♀ D, 23 ♀ V.
- \*654. **Hamadryas glauconome** (H. Bates, 1864)  
 Entomol. Mon. Mag. 1(5): 114-115, no. 48.  
**Original Combination:** *Ageronia Glauconome*  
**Type Locality:** "Guatemala, interior"; syntype from "Verapaz."  
**Types:** Syntype (#Rh9258) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 36, figs. 29 ♂ D, 30 ♂ V.  
 = *oenoe* (Boisduval, 1870)  
 Consid. Lépid. Guat.: 26-27.  
**Original Combination:** *Ageronia Oenoe*  
**Type Locality:** "Costa-Rica...Yukatan"; syntype from "Yukatan." [Yucatán, Mexico]  
**Types:** Syntype in BMNH.  
 = *megala* (Fruhstorfer, 1914)  
*In:* Seitz, Grossschmett. Erde 5(192): pl. 105b, fig. [5] ♀ D (actually a ♂) (1914) (as *glauconome*, (206): 540 (1916)).  
**Original Combination:** [*Ageronia februa*] *megala*  
**Type Locality:** "südlichen Mexiko"  
**Types:** Location of type(s) not known (Fruhstorfer collection).  
 ‡"aenoe" (E. Doubleday, [1847])  
*In:* Gen. diurn. Lepid. 1(8): 83.  
**Original Combination:** *Ageronia. Aenoë*  
 Proposed without a description or indication; a *nomen nudum*.
- a. **Hamadryas glauconome grisea** Jenkins, 1983  
 Bull. Allyn Mus. (81): 38-39, figs. 33 ♂ D, 34 ♂ V (holotype); 35 ♀ D, 36 ♀ V.  
**Original Combination:** *Hamadryas glauconome grisea*  
**Type Locality:** "Mexico, 'Sinaloa', no specific locality"  
**Types:** Holotype in USNM.
- \*655. **Hamadryas atlantis** (H. Bates, 1864)  
 Entomol. Mon. Mag. 1(5): 115-116, no. 50.  
**Original Combination:** *Ageronia Atlantis*  
**Type Locality:** "Guatemala, central valleys"; holotype from "Chuacús about 3,000 ft."  
**Types:** Holotype (#Rh9260) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 45, figs. 43 ♀ D, 44 ♀ V.
- a. **Hamadryas atlantis lelaps** (Godman & Salvin, 1893)  
 Biol. centr.-amer., Lepid. Rhop. 1(26): 270, no. 4.  
**Original Combination:** *Ageronia lelaps*  
**Type Locality:** "Mexico, Ventanas...State of Durango, Mexico, at an altitude of about 3000 feet"  
**Types:** Holotype (#Rh9259) in BMNH.
- \*656. **Hamadryas feronia** (Linnaeus, 1758)  
 Syst. Nat. (ed. 10): 473, no. 95; cited Clerck [1764], Icon. Ins. 2: pl. 31, fig. 1 ♂ D&V.  
**Original Combination:** [*Papilio*]. [*Nymphalis gemmatus*] *Feronia*  
**Type Locality:** "India"; suggested to be "probably Guianas" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 326.  
**Types:** Type(s) apparently lost.  
 = *catablymata* (Fruhstorfer, 1916)  
*In:* Seitz, Grossschmett. Erde 5(206): 542.  
**Original Combination:** [*Ageronia feronia*] *catablymata*  
**Type Locality:** "mittelbrasilianischen" [Central Brazil]  
**Types:** Location of type(s) not known.  
 = *obumbrata* (Fruhstorfer, 1916)  
*In:* Seitz, Grossschmett. Erde 5(206): 542.

**Original Combination:** [*Ageronia feronia*] *obumbrata*

**Type Locality:** "Paraguay"

**Types:** Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 58, figs. 69 ♂ D, 70 ♂ V.

= *peruviana* (Bryk, 1953)

Ark. Zool. (ns)5(1): 114, no. 256.

**Original Combination:** *Peridromia feronia* ssp. *peruviana*

**Type Locality:** "Roque, SW Moyob" [Peru]

**Types:** Syntypes in NHRS.

a. **Hamadryas feronia farinulenta** (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 542.

**Original Combination:** [*Ageronia feronia*] *farinulenta*

**Type Locality:** "Honduras"; syntypes from "Honduras, Cortés, San Pedro Sula" and "Mexico."

**Types:** Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 61, figs. 73 ♂ D, 74 ♂ V, 75 ♀ D, 76 ♀ V.

= *insularis* (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 542.

**Original Combination:** [*Ageronia feronia*] *insularis*

**Type Locality:** "Insel Trinidad"; syntypes from "Trinidad, Belmont."

**Types:** Syntypes in BMNH.

= *nobilita* (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 543.

**Original Combination:** [*Ageronia feronia*] *nobilita*

**Type Locality:** "Venezuela und Colombien...Panamá, Chiriqui...Venezuela"

**Types:** Syntypes in BMNH.

\*657. **Hamadryas guatemalena** (H. Bates, 1864)

Entomol. Mon. Mag. 1(5): 115, no. 49.

**Original Combination:** *Ageronia Guatemalena*

**Type Locality:** "Guatemala, central valleys"

**Types:** Syntype (#Rh9261) in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 65, figs. 77 ♂ D, 78 ♂ V.

= *elata* (Fruhstorfer, 1907)

Stettiner Entomol. Ztg. 68(1): 16-17.

**Original Combination:** *Ageronia guatemalena elata*

**Type Locality:** "Espiritu-Santo" [Brazil]

**Types:** Syntypes in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 68, figs. 85 ♂ D, 86 ♂ V, 87 ♀ D, 88 ♀ V.

= *eupolema* (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 542.

**Original Combination:** [*Ageronia guatemalena*] *eupolema*

**Type Locality:** "Halbinsel Yucatan to Panama"

**Types:** Location of type(s) not known.

a. **Hamadryas guatemalena marmarice** (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 542.

**Original Combination:** [*Ageronia guatemalena*] *marmarice*

**Type Locality:** "Orizaba and Guadalajara [sic!] (Mexico)"; syntype from "Mexico, Veracruz, Orizaba."

**Types:** Syntype (15-116) in BMNH, figured by Jenkins (1983), Bull. Allyn Mus. (81): 67, figs. 81 ♂ D, 82 ♂ V.

\*658. **Hamadryas iphthime** (H. Bates, 1864)

Entomol. Mon. Mag. 1(5): 116, no. 51.

**Original Combination:** *Ageronia Iphthime*

**Type Locality:** "Guatemala; also New Granada"; lectotype from "Colombia."

**Types:** Lectotype in BMNH, designated by Jenkins (1983), Bull. Allyn Mus. (81): 79.

= *gervasia* (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 543.

**Original Combination:** [*Ageronia iphthime*] *gervasia*

**Type Locality:** "Bahia angefangen, durch alle brasilianischen Provinzen bis und mit Rio grande do Sul vorkommen"; syntype from "Brazil, Rio Grande do Sul."

**Types:** Syntypes in BMNH; one figured by Jenkins (1983), Bull. Allyn Mus. (81): 71, figs. 89 ♂ D, 90 ♂ V.

= *aternia* (Fruhstorfer, 1916)

*In:* Seitz, Grossschmett. Erde 5(206): 543.

**Original Combination:** [*Ageronia iphthime*] *aternia*

**Type Locality:** "Bolivien"; syntype from "Bolivia, La Paz, Chimate."

**Types:** Syntypes in BMNH; one figured by Jenkins (1983), Bull. Allyn Mus. (81): 71, figs. 91 ♀ D, 92 ♀ V.

= *lindmani* (Bryk, 1953)

Ark. Zool. (ns)5(1): 115, no. 259b.

**Original Combination:** [*Peridromia epinome*] ssp. *lindmani*

**Type Locality:** "Mato Grosso" [Brazil]

**Types:** Holotype in NHRS.

"#itania" (L. Martin, Talbot & Jullien, [1923])

Fruhstorfer Colln.: 54.

**Original Combination:** *Ageronia iphthime* [sic!] *itania*



Proposed without a description or indication; a *nomen nudum*.

- a. **Hamadryas iphthime joannae** Jenkins, 1983  
Bull. Allyn Mus. (81): 72-73, figs. 93 ♂ D, 94 ♂ V (holotype); 95 ♀ D, 96 ♀ V.  
**Original Combination:** *Hamadryas iphthime joannae*  
**Type Locality:** "Mexico, Oaxaca, Chiltepec"  
**Types:** Holotype in MGCL.
- \*659. **Hamadryas amphinome** (Linnaeus, 1767)  
Syst. Nat. (ed. 12) 1(2): 779-780, no. 176; cited Kleeman (1761), Beytr. Nat. Ins. 1: pl. 10, fig. 1 ♂ D, 2 ♂ V, and Merian (1705), Ins. Surin.: 8, pl. 8 D&V.  
**Original Combination:** *P[apilio]. N[ymphalis phaleratus]. Amphinome*  
**Type Locality:** "America meridionali"; suggested to be "Surinam" by Jenkins (1983), Bull. Allyn Mus. (81): 87.  
**Types:** Types apparently lost.  
= *morsina* (Fruhstorfer, 1916)  
In: Seitz, Grossschmett. Erde 5(206): 544.  
**Original Combination:** [*Ageronia amphinome*] *morsina*  
**Type Locality:** "Colombien"  
**Types:** Syntype in BMNH; figured by Jenkins (1983), Bull. Allyn Mus. (81): 87, figs. 119 ♀ D, 120 ♀ V.  
= *regina* (Fruhstorfer, 1915)  
In: Seitz, Grossschmett. Erde 5(237): pl. 104b; 5(206): 544.  
**Original Combination:** [*Ageronia amphinome*] *regina*  
**Type Locality:** "Espiritu [sic!] Santo"; syntypes from "Bahia and Espirito Santo." [Brazil]  
**Types:** Syntypes in BMNH.  
This name was misspelled as "aegina" on page 544, but correctly on the plate and index; an incorrect original spelling.  
= *†nysa* (Oberthür, 1912)  
Étud. Lépid. Comp. 6: 311, pl. 99, fig. 953 ♂ D&V.  
**Original Combination:** *Ageronia Amphinome-Nysa*  
**Type Locality:** "Environs de Bogota, en Nouvelle-Grenade"  
**Types:** Holotype (15-124) in BMNH.  
The text clearly indicates that this taxon was described as an individual variant.  
*†sairis* (L. Martin, Talbot & Jullien, 1923)  
Fruhstorfer Colln.: 53.  
**Original Combination:** *Peridromia amphinome sairis*  
Proposed without a description or indication; a *nomen nudum*.
- a. **Hamadryas amphinome mexicana** (Lucas, 1853)  
Revue Mag. Zool. (2)5(7): 311-312.  
**Original Combination:** *Peridromia Mexicana*  
**Type Locality:** "Mexique"  
**Types:** Location of type(s) not known, probably in MNHP.

#### Tribe **Epiphelini** Jenkins, 1987

Bull. Allyn Mus. (114): 9 (mentioned), 48. Type-genus: *Epiphile* E. Doubleday, [1845], List Spec. Lepid. Brit. Mus. 1: 90.

#### Genus **Temenis** Hübner, [1819]

Verz. bekannt. Schmett. (3): 34; Type-species: *Papilio merione* Fabricius 1781, Spec. Ins., 2: 94, no. 411 (= *Papilio laothoe* Cramer, 1777, Utitl. Kapellen 2 (11): 55, pl. 132, figs. A, B: 149 (index); homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 278.

- = *Paromia* Hewitson, 1861  
Ill. exot. Butts. 2(40): [49]. Type-species: *Paromia pulchra* Hewitson, 1861, Ill. exot. Butts. 2(40): [49], pl. Epiphile II [25], figs. 1, 2, by monotypy. Preoccupied by *Paromia* Westwood, 1851, Trans. Entomol. Soc. Lond. (2)1: 167.  
= *Callicorina* Smart, 1976  
Illust. Encyp. Butt. World: 274 (appendix), no. 32. Type-species: *Paromia pulchra* Hewitson, 1861, Ill. exot. Butts. 2(40): [49], pl. Epiphile II [25], figs. 1, 2, as a replacement name. Proposed to replace *Paromia* Hewitson, 1861 (Code Articles 60.3, 67.8).

- \*660. **Temenis laothoe** (Cramer, 1777)  
Utitl. Kapellen 2 (11): 55, pl. 132, figs. A ♂ D, B ♂ V.  
**Original Combination:** *Pap[ilio]. Nymph[alis]. Phalerat[a]. Lathoe*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.  
Recorded from Texas by Grishin (2005), News Lepid. Soc. 47(1): 3, 10, 6 figs.  
= *†ariadne* (Cramer, 1777)  
Utitl. Kapellen 2(15): 127, pl. 180, figs. E ♂ D, F ♂ V; (16): 147 (index).  
**Original Combination:** *Pap[ilio]. Nymph[alis]. Phalerat[a]. Ariadne*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.  
Preoccupied by *Papilio ariadne* Linnaeus, 1763, in: Johansson, Cent. Ins. Rar. 24, no. 72.

- = *merione* Fabricius, 1781  
Spec. Ins. 2: 94, no. 411.  
**Original Combination:** *P[apilio]*. *N[ympales]* *F[estivi]*. *Merione*  
**Type Locality:** "Surinami"  
**Types:** Location of types not known.  
Preoccupied by *Papilio merione* Cramer, 1777, Uitl. Kapellen 2(12): 76, pl. 144, figs. G, H; (16): 149 (index).
- = *agatha* (Fabricius, 1787)  
Mant. Ins. 2: 54, no. 530.  
**Original Combination:** *P[apilio]*. *N[ympalis]*. *P[haleratus]* *Agatha*  
**Type Locality:** "Indiis Dom. Boeber"  
**Types:** Location of type(s) not known.  
Preoccupied by *Papilio agatha* Cramer, 1779, Uitl. Kapellen 3(20): 74, pl. 237, figs. A, B; (24): 173 (index).
- = *violetta* Fruhstorfer, 1907  
Stettiner Entomol. Ztg. 68(2): 229.  
**Original Combination:** *Temenis laothoe violetta*  
**Type Locality:** "Rio Waupes" [Colombia]  
**Types:** Location of type(s) not known, possibly in ZMHB or BMNH.
- = *pseudolaothoe* Fruhstorfer, 1907  
Stettiner Entomol. Ztg. 68(2): 230.  
**Original Combination:** [*Temenis*] *laothoe pseudolaothoe*  
**Type Locality:** "Obidos" [Pará, Brazil]  
**Types:** Location of type(s) not known, possibly in ZMHB or BMNH.
- = *ottonis* Fruhstorfer, 1907  
Stettiner Entomol. Ztg. 68(2): 231.  
**Original Combination:** [*Temenis laothoe laothoe*] ♀ forma *ottonis*  
Proposed to replace *Papilio merione* Fabricius, 1781, Spec. Ins. 2: 94, no. 411, with the same data (Code Article 60.3).
- = *"pseudariadne"* Fruhstorfer, 1907  
Stettiner Entomol. Ztg. 68(2): 229.  
**Original Combination:** [*Temenis laothoe pseudolaothoe*] forma *pseudoariadne*  
**Type Locality:** "Obidos" [Pará, Brazil]  
**Types:** Location of "type(s)" not known, possibly in ZMHB or BMNH.
- = *"creta"* A. Hall, 1919  
Entomol. 52[676]: 198.  
**Original Combination:** *Temenis laothoe* f. *creta*  
**Type Locality:** "St. Jean du Maroni, French Guiana"  
**Types:** "Holotype" in BMNH.
- = *goesi* Fassl, 1922  
Entomol. Z. 36(10): 38.  
**Original Combination:** *Temenis laothoe goesi* ♂  
**Type Locality:** "Viktoria und Alta-Mira...Rio Xingu" [Pará, Brazil]  
**Types:** Type(s) in NHMB.
- a. *Temenis laothoe hondurensis* Fruhstorfer, 1907  
Stettiner Entomol. Ztg. 68(2): 229-230.  
**Original Combination:** [*Temenis*] *laothoe hondurensis*  
**Type Locality:** "Honduras"  
**Types:** Location of type(s) not known, possibly in ZMHB or BMNH.
- = *liberia* Fabricius, 1793  
Entomol. Syst. 3(1): 135, no. 418; cited Jones' Icones 5: pl. 15, fig. 1.  
**Original Combination:** *P[apilio]*. *N[ympales]*. *Liberia*  
**Type Locality:** "Indiis Mus. Dom. Jones"  
**Types:** Location of types not known.  
Preoccupied by *Papilio liberia* Cramer, 1779, Uitl. Kapellen 3(18): 31, pl. 210, figs. G, H.

Genus **Epiphile** E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 90. Type-species: *Temenis oreia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [30], figs. 1, 2 (not 3, 4), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 165, no. 389.

- = *Epiphile* Boisduval, 1870  
Consid. Lepid. Guat.: 40. Type-species: *Epiphile epicaste* Hewitson, 1857, Ill. exot. Butt. 2: [47], pl. [24], figs. 3, 4, by designation of Hemming (1943), Proc. R. Entomol. Soc. Lond. (B) 12: 27. Preoccupied by *Epiphile* E. Doubleday, [1845], List Spec. Lepid. Brit. Mus. 1: 90.

661. **Epiphile adrasta** Hewitson, 1861

- a. **Epiphile adrasta adrasta** Hewitson, 1861  
Ill. exot. Butts. 2: [50], pl. [25], figs. 9, 10, 11.  
**Original Combination:** *Epiphile Adrasta*  
**Type Locality:** "México"

**Types:** Syntype (#Rh9365) in BMNH; figured by Jenkins (1986), Bull. Allyn Mus. (101): 27, figs. 54 ♂ D, 55 ♂ V.

Tribe **Eubagini** Burmeister, 1878

Descr. phys. Rép. Argentine 5(Lépid.) (1): 169 (as "Eubagidae"). Type-genus: *Eubagis* Boisduval, 1832, in: d'Urville, Voy. Astrolabe 1(Lep): 70.

Genus **Dynamine** Hübner, [1819]

Verz. bekannt. Schmett. (3): 41. Type-species: *Papilio mylitta* Cramer, 1779, Uitl. Kapellen 3(22): 107, pl. 253, figs. D, E; (24): 175 (index) (= *Papilio postverta* Cramer, 1779, Uitl. Kapellen 3(22): 109, pl. 254, f. C, D; (24): 176 (index); synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 160, no. 361.

= *Sironia* Hübner, 1823

Zutr. Samml. exot. Schmett. 2: 31. Type-species: *Sironia tithia* Hübner, 1823, Zutr. Samml. exot. Schmett. 2: pl. [68], figs. 391, 392; 31, no. 196, by monotypy.

= *Eubagis* Boisduval, 1832

In: d'Urville, Voy. Astrolabe 1(Lep): 70. Type-species: *Papilio athemon* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 484, no. 157, by monotypy.

= *Arisba* E. Doubleday, 1847

List Spec. Lepid. Brit. Mus. 2: 11. Type-species: *Papilio agacles* Dalman, 1823, Analecta Entomol.: 47, no. 19, by monotypy.

662. **Dynamine postverta** (Cramer, 1779)

Uitl. Kapellen 3(22): 109, pl. 254, f. C, D; (24): 176 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Gemm[ata]. Postverta*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

As first reviser, precedence was given to *postverta* over *mylitta* by Godart, [1824], Ency. méth. 9(Ins.) (2): 419, no. 218.

Recorded from Texas by Bordelon and Knudson (2006), News Lepid. Soc. 48(1): 3, figs. 4, 5 ♀, 6 ♂, natural photos.

= *mylitta* (Cramer, 1779)

Uitl. Kapellen 3(22): 107-108, pl. 253, figs. D, E; (24): 175 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Gemm[ata]. Mylitta*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

= *thoenii* Anken, 1998

Facetta 1(15): 30, fig.

**Original Combination:** *Dynamine mylitta thoenii*

**Type Locality:** "Brazil, Minas Gerais, Pote"

**Types:** Holotype in Anken collection.

= ♀ "uniocellata" Bryk, 1953

Ark. Zool. (ns) 5(1): 108-109, no. 241.

**Original Combination:** *Dynamine mylitta* fa. *uniocellata*

**Type Locality:** "Bahia, Iguassú" [Brazil]

**Type:** "Holotype" in NHRS.

a. **Dynamine postverta mexicana** d'Almeida, 1952

Bol. Mus. Nac. (Zool.) (Rio de Janeiro) 114: 1, fig. 2 ♂ V (holotype).

**Original Combination:** *Dynamine mylitta mexicana*

**Type Locality:** "de Presidio, México" [Veracruz]

**Types:** Holotype in UFPC.

= ♀ "bipupillata" Röber, 1915

In: Seitz, Grossschmett. Erde 5 5 (230): 507.

**Original Combination:** [*Dynamine mylitta*] ab. *bipupillata*

**Type Locality:** Not stated; listed as "[Honduras]" by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 241.

**Types:** Location of type(s) not known.

663. **Dynamine dyonis** Geyer, 1837

In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [150], figs. 871 ♂ D, 872 ♂ V [1833]; 19, no. 436 (1837, name given).

**Original Combination:** *Dynamine Dyonis*

**Type Locality:** "Mexico"

**Types:** Type(s) probably lost.

Subfamily **Cyrestinae** Guenée, 1865

In: Vinson, Voy. Madagascar, Annexe F: 28 (as "Cyrestidae"). Type-genus: *Cyrestis* Boisduval, 1832, in: d'Urville, Voy. Astrolabe 1(Lep): 117.

Genus **Marpesia** Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 32. Type-species: *Marpesia eleuthea* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: pl. [35], figs. 197, 198; 32, no. 99, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 212, no. 659.

= *Athena* Hübner, [1819]

Verz. bekannt. Schmett. (3): 36. Type-species: *Papilio "thetis"* (= *thetys*) Fabricius, 1777, Gen. Ins.: 264 (= *Papilio petreus* Cramer, 1776,



- Uitl. Kapellen 1(8): 138, pl. 87, figs. D, E; (8): 154 (index); homonym), by monotypy.
- = *Euglyphus* Billberg, 1820
- Enum. Ins. Mus. Billb.: 80. Type-species: *Papilio chiron* Fabricius, 1775, Syst. Entomol.: 452, no. 40, by monotypy.
- = *Marius* Swainson, 1830
- Zool. Illustr. (2) 1(9): pl. 45, unnumbered text. Type-species: *Papilio marius* Cramer, 1779, Uitl. Kapellen 3(17): 14, pl. 200, figs. D, E; (24): 175 (index) (= *Papilio chiron* Fabricius, 1775, Syst. Entomol.: 452, no. 40; synonym), by original designation.
- = ‡*Petreus* Swainson, 1833
- Zool. Illustr. (2) 3(24): pl. 110, unnumbered text. Type-species: *Papilio thetys* Fabricius, 1777, Gen. Ins.: 264 (= *Papilio petreus* Cramer, 1776, Uitl. Kapellen 1(8): 138, pl. 87, figs. D, E; (8): 154 (index); homonym), by monotypy. A junior objective synonym of *Athena*.
- = *Megalura* Blanchard, 1840
- In: Castelnau, Hist. Nat. Ins. 3: 446. Type-species: *Nymphalis coresia* Godart, [1824], in: Ency. méth. 9(Ins.) (2): 359, no. 31 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), by original designation.
- = *Tymetes* Doyère, [1840]
- In: Cuvier, Règne Animal. (3rd ed) Ins. 2(10): pl. 139, fig. 1. Type-species: *Tymetes merops* Doyère, [1840], in: Cuvier, Règne Animal. (3rd ed) Ins. 2(10): pl. 139, fig. 1, by monotypy.
- This name was spelled "Timetes" by Scudder (1875), Bull. Buffalo Soc. Nat. Sci. 2(4): 237, 356, no. 37; an unjustified emendation.
- = ‡*Timetes* E. Doubleday, [1845]
- List Spec. Lepid. Brit. Mus. 1: 87. Type-species: *Nymphalis coresia* Godart, [1824], in: Ency. méth. 9(Ins.) (2): 359 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), by designation of Hemming (1933), Entomol. 66(10)[845]: 223. A junior objective synonym of *Megalura*.
- = ‡*Timetes* Boisdual, 1870
- Consid. Lépid. Guat.: 44. Type-species: *Papilio marius* Cramer, 1779, Uitl. Kapellen 3(17): 14, pl. 200, figs. D, F; (24): 175 (index) (= *Papilio chiron* Fabricius, 1775, Syst. Entomol.: 452, no. 40; synonym), by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B) 8(7): 135. Preoccupied by *Timetes* E. Doubleday, 1845.
- = ‡*Eumargareta* Grote, 1898
- Can. Entomol. 30(9): 201, 202. Type-species: *Nymphalis coresia* Godart, [1824], in: Ency. méth. 9(Ins.) (2): 359 (= *Marpesia zerynthia* Hübner, [1823], Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V; synonym), as a replacement name. Proposed to replace *Megalura* Blanchard, 1840, erroneously thought preoccupied; a junior objective synonym of *Megalura*.
- \*664. **Marpesia zerynthia** Hübner, [1823]  
Samml. exot. Schmett. 2: pl. [51], figs. 1 ♂ D, 2 ♂ V.  
**Original Combination:** *Marpesia Zerynthia*  
**Type Locality:** Not stated; defined as "Mexico, Amer. Med. Et Centr." by W. F. Kirby (1908), in: P. Wytsman, Fac. ed. Hübner Samml. exot. Schmett. 3(addit. notes): 34.  
**Types:** Type(s) probably lost.  
= *coresia* (Godart, [1824])  
In: Ency. méth. 9(Ins.) (2): 359, no. 31.  
**Original Combination:** *Nymphalis Coresia*  
**Type Locality:** "Brasil"  
**Types:** Holotype may be in USNM or MNHP.  
= *sylla* (Perty, 1833)  
Delect. Anim. art. Bras. (3): 151, pl. 29, figs. 2, 2b.  
**Original Combination:** *Papilio Sylla*  
**Type Locality:** "Brasil" implied from the title of the work.  
**Types:** Location of type(s) not known.  
a. **Marpesia zerynthia dentigera** (Fruhstorfer, 1907)  
Stettiner Entomol. Ztg. 68(2): 238; cited Staudinger (1886), in: Staudinger and Schatz, Exot. Schmett. 1(1)(14): 134; (2)(9/10): pl. 45, bottom row, last, and W. Holland (1898), Butt. Book: pl. 21, figs. 1 ♂ D, 2 ♂ V.  
**Original Combination:** [*Megalura coresia*] *dentigera*  
**Type Locality:** "Colombien...Peru...Texas (Holland)"  
**Types:** Syntypes in BMNH.  
Neild (1996), Butts. Venezuela 1: 93, considered this species to be monotypic.
665. **Marpesia chiron** (Fabricius, 1775)  
Syst. Entomol.: 452, no. 40; cited Daubenton [1765], Miscellanea: pl. 71, figs. 2, 3.  
**Original Combination:** *P[apilio] E[ques]. A[chivus]. Chiron*  
**Type Locality:** "India. Drury"; suggested to be "Jamaica" by F. Brown (1972), in: F. Brown and Heineman, Jamaica Butts.: 135-136.  
**Types:** Lectotype in ZMUC, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butts.: 18.  
This was spelled "chironias" by Hübner [1819], Verz. bekannt. Schmett. (3): 47, representing either an unjustified emendation or an attempt to replace *chiron*.  
The synonymy below follows Smith *et al.* (1994), Butts. W. Ind. & Fla.: 71.  
= *marius* (Cramer, 1779)  
Uitl. Kapellen 3(17): 14, pl. 200, figs. D ♂ D, E ♂ V; (24): 175 (index).  
**Original Combination:** *Pap[ilio]. Eq[ui]tes. Achiv[i]. Marius*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.

- = *chironides* (Staudinger, 1886)  
In: Staudinger and Schatz, Exot. Schmett. 1(1)(14): 134.  
**Original Combination:** *M[egalura]. Chironides*  
**Type Locality:** "Cuba"  
**Types:** Type(s) probably in ZMHB.
  - = *insularis* (Fruhstorfer, 1907)  
Stettiner Entomol. Ztg. 68(2): 237; cited *Papilio marius* (sensu Stoll (1790), Anhangs. Utitl. Kapellen: pl. 30, figs. 1, 1a).  
**Original Combination:** [*Megalura chiron* Form] *insularis*  
**Type Locality:** "Jamaica"  
**Types:** Type(s) probably lost.
  - = *cyclops* Fabricius, 1938  
In: Bryk, Syst. Glossat.: 45, no. 94.  
**Original Combination:** *P[apilio]. A[chivus]. Cyclops*  
**Type Locality:** "Amboina Mus. Gall.," suggested to be "Hispaniola" by F. Brown (1988), Trans. Am. Entomol. Soc. 113(4): 436.  
**Types:** Location of type(s) not known.  
‡"axayacatl" (Arias, 1968)  
Exp. cient. esp. siglo XVIII. Exp. Bot. Nueva España: 394.  
**Original Combination:** *Papilio axayacatl*  
Proposed without a description or indication; a *nomen nudum*.
666. **Marpesia petreus** (Cramer, 1776)  
a. **Marpesia petreus petreus** (Cramer, 1776)  
Utitl. Kapellen 1(8): 138, pl. 87, figs. C ♂ D, D ♂ V; (8): 154 (index).  
**Original Combination:** *Pap[ilio]. Eq[uietes]. Achiv[i]. Petreus*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Syntypes in the BMNH.  
As indicated by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 235, and Llorente *et al.* (2004), J. Lepid. Soc. 58 (4): 217, northern populations of this species currently lack a trinomial.
667. **Marpesia eleuthea** Hübner, 1818  
a. **Marpesia eleuthea eleuthea** Hübner, 1818  
Zutr. Samml. exot. Schmett. 1: 32, no. 99 (1818), pl. [35], figs. 197 ♀ D, 198 ♀ V [1818]; figured by Hübner [1823], Samml. Exot. Schmett. 2: pl. [50], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Marpesia Eleuthea*  
**Type Locality:** "der Insel Cuba, von Habana"  
**Types:** Type(s) probably lost.  
Anderson (1974), J. Lepid. Soc. 28(4): 357, reported this species from Sugarloaf Key, Monroe County, Florida.

#### Subfamily **Nymphalinae** Rafinesque, 1815

##### Tribe **Coeini** Scudder, 1893

Proc. Am. Acad. Arts Sci., Boston 27: 243 (as "Coenini"). Type-genus: *Coea* Hübner, [1819], Verz. bekannt. Schmett. (3): 48.

##### Genus **Historis** Hübner, [1819]

Verz. bekannt. Schmett. (3): 35. Type-species: *Papilio odius* Fabricius, 1775, Syst. Entomol.: 457, no. 60, by designation of W. Barnes and Benjamin (1926), Bull. South. Calif. Acad. Sci. 25(1): 16.

- = *Coea* Hübner, [1819]  
Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 144, no. 273.
- = *Aganisthos* Boisduval & Le Conte, [1835]  
Hist. Lepid. Amér. sept. (22): 194. Type-species: *Papilio orion* Fabricius, 1775, Syst. Entomol.: 485, no. 185 (= *Papilio odius* Fabricius, 1775, Syst. Entomol.: 457, no. 60; homonym), by monotypy.
- = *Megistanis* E. Doubleday, [1845]  
List Spec. Lepid. Brit. Mus. 1: 109. Type-species: *Papilio cadmus* Cramer, 1775, Utitl. Kapellen 1(2): 33, pl. 22, figs. A, B; (8): 152 (index) (= *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249; subspecies), by monotypy.
- = ‡*Megistanis* Boisduval, 1870  
Consid. Lépid. Guat.: 53. Type-species: *Papilio pherecydes* Stoll, 1780, Utitl. Kapellen 4(28): 80, pl. 330, figs. A, B; (34): 251 (index) (= *Papilio acheronta* Fabricius, 1775, Syst. Entomol.: 501-502, no. 249; synonym), by monotypy. Preoccupied by *Megistanis* E. Doubleday, [1845].

668. **Historis odius** (Fabricius, 1775)  
a. **Historis odius odius** (Fabricius, 1775)  
Syst. Entomol.: 457, no. 60.  
**Original Combination:** *P[apilio]. E[ques]. A[chivus]. Odus*  
**Type Locality:** "Indiis. Mus. Lugdunense"  
**Types:** Type(s) probably lost.  
= ‡*orion* (Fabricius, 1775)

Syst. Entomol.: 485, no. 185.

**Original Combination:** *Papilio D[anaus] F[estivus]*. *Orion*

**Type Locality:** "Surinami. Mus. D. Hunter"

**Types:** Syntypes in HMUG and ZMUC.

Preoccupied by *Papilio orion* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471-472, no. 65.

b. **Historis odius dious** Lamas, 1995

Revta. Peru. Entomol. 37: 65, no. 15.

**Original Combination:** *Historis odius dious*

Proposed as a replacement name for *Papilio danae* Cramer, 1775, preoccupied, with the same data (Code Article 60.3).

= *danae* (Cramer, 1775)

Uitl. Kapellen 1(7): 131-132, pl. 84, figs. A ♂ D, B ♂ V; (8): 152 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phalerat[a]. Danae*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Lectotype in BMNH, designated by Lamas (1995), Revta. Peru. Entomol. 37: 66.

Preoccupied by *Papilio danae* Hufnagel, 1766, Berl. Mag. 2: 82, no. 50.

669. **Historis acheronta** (Fabricius, 1775)

a. **Historis acheronta acheronta** (Fabricius, 1775)

Syst. Entomol.: 501-502, no. 249.

**Original Combination:** *P[apilio]. N[ymphalis]. P[halerata]. Acheronta*

**Type Locality:** "Brasilia. Drury"

**Types:** Syntype in BMNH.

= *pherecydes* (Stoll, 1780)

Uitl. Kapellen 4(28): 80, pl. 330, figs. A ♂ D, B ♂ V; (34): 251 (index).

**Original Combination:** *Papilio E[ques]. A[chivi]. Pherecydes*

**Type Locality:** "Surinamen" "Suriname"

**Types:** Type(s) probably lost.

Tribe **Nymphalini** Rafinesque, 1815

Genus **Smyrna** Hübner, [1823]

Samml. exot. Schmett. 2: pl. [65]. Type-species: *Papilio blomfeldia* Fabricius, 1781, Spec. Ins. 2: 84, by monotypy.

\*670. **Smyrna blomfeldia** (Fabricius, 1781)

Spec. Ins. 2: 84, no. 370.

**Original Combination:** *P[apilio]. N[ymphales]. G[emmati] Blomfeldia*

**Type Locality:** "Brasilia Mus. Dom. Yeats"

**Types:** Syntype probably lost.

= *proserpina* (Fabricius, 1793)

Entomol. Syst. 3(1): 228, no. 713; cited Jones' Icones 5, pl. 24, fig. 1.

**Original Combination:** *P[apilio]. S[atyr]. Proserpina*

**Type locality:** "Mus. Dom Banks"

**Types:** Syntype in BMNH.

= *bella* (Godart, [1824])

In: Enc. méth. 9(Ins.) (2): (335), 375-376, no. 85; cited Jones' Icones 5: pl. 83, fig. 1, and *Papilio bella* Fabricius, 1793, Entomol. Syst. 3(1): 79, no. 245.

**Original Combination:** *Nymphalis Bella*

**Type Locality:** "l'Amerique méridionale"

**Types:** Type(s) possibly in MNHP.

= *pluto* (Westwood, 1851)

In: Gen. diurn. Lepid. 2(44): 392, no. 54.

**Original Combination:** *Satyrus Pluto*

**Type Locality:** Not stated.

**Types:** Syntype(s) possibly in BMNH.

a. **Smyrna blomfeldia datis** Fruhstorfer, 1908

Int. Entomol. Z. 1(42): 319.

**Original Combination:** *Smyrna blomfeldia datis*

**Type Locality:** "West-Mexiko"

**Types:** Syntypes possibly in BMNH.

Genus **Hypanartia** Hübner, [1821]

Samml. exot. Schmett. 2: pl. [26]. Type-species: *Hypanartia demonica* Hübner, [1821], Samml. exot. Schmett. 2: pl. [26], figs. 1, 2 (not 3, 4) (= *Papilio lethe* Fabricius, 1793, Entomol. Syst. 3(1): 80, no. 250; synonym), by monotypy.

= *Eurema* E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 83. Type-species: *Papilio lethe* Fabricius, 1793, Entomol. Syst. 3(1): 80. Preoccupied by *Eurema* Hübner, [1819], Verz. bekannt. Schmett. (6): 96.



‡"Heurema" Herrich-Schäffer, 1865

Corresp.-Bl. zool.-min. Ver. Regensburg 19(6): 89. Herrich-Schäffer mistakenly thought that Agassiz (1847), Nomencl. Zool. (4th ed.) (12) (index universalis): 181, had emended E. Doubleday's *Eurema*, but Agassiz actually emended (unjustifiably) Hübner's *Eurema*.

‡"Hybristis" Hübner, 1937

In: Hemming, Hübner 2: 129. Type-species: *Vanessa zabulina* Godart, 1819, Enc. Méth 9(1): 290, no. 63. Proposed without a description; a *nomen nudum*.

671. **Hypanartia lethe** (Fabricius, 1793)

Entomol. Syst. 3(1): 80, no. 250; cited Jones' Icones 5: pl. 18, fig. 2.

**Original Combination:** *P[apilio]. N[ymphales]. Lethe*

**Type Locality:** "Indiis. Dom. Jones"

**Types:** Syntype(s) possibly in MAMU.

= *demonica* Hübner, [1821]

Samml. exot. Schmett. 2: pl. [26], figs. 1 ♂ D, 2 ♂ V (not 3, 4).

**Original Combination:** *Hypanartia Demonica*

**Type Locality:** Not stated; listed as "Amer. mer. et centr." by W. F. Kirby (1908), in: P. Wytman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 20.

**Types:** Lectotype is the specimen figured on plate [26], designated by Hemming (1964), Annot. Lepid. (3): 98, and is probably lost.

Genus **Vanessa** [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 281, no. 12. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by designation of Latreille (1810), Consid. gén. Anim. Crust. Arach. Ins.: 440, 354. I.C.Z.N. *Opinion 156* placed *Vanessa* on the *Official List of Generic Names in Zoology* as name no. 601. This name was spelled "Phanessa" by Sodoffsky (1837), Bull. Soc. Imp. Nat. Moscou 10(6): 80, no. 4; an unjustified emendation.

= ‡*Nymphalis* Latreille, 1804

Nouv. Dict. Hist. Nat. 24(tab): 184, no. 468, 199. Type species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by monotypy. Preoccupied by *Nymphalis* Kluk, 1780, Zwierr. Hist. Nat. Pocz. Gospod. 4: 86. Wagener (1995), in: Hesselbarth *et al.*, Tagf. Türk (2): 1008, claimed that the species *Papilio morio* Retzius, 1783, Gen. Spec. Ins.: 31, no. 9, the other of the two species included in the genus by Latreille, was indeed validly described, and chose it as the type-species. This action, if followed, would place this homonym under *Nymphalis* Kluk, 1780.

= *Cynthia* [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 281, no. 11. Type-species: *Papilio cardui* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 475, no. 107, by designation of Westwood (1840), Intro. Class. Ins. 2: 87. I.C.Z.N. *Direction 4* placed *Cynthia* on the *Official List of Generic Names in Zoology* as name no. 805. I.C.Z.N. *Opinion 156* gave *Vanessa* precedence over *Cynthia*. The validity of this name as a genus-level taxon is questionable, as demonstrated by occasional hybridization between taxa placed by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 1-105, in *Vanessa* and *Cynthia* (e.g., Dimock (1973), J. Lepid. Soc. 27(4): 278).

= ‡*Pyrameis* Hübner, [1819]

Verz. bekannt. Schmett. (3): 33. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 260, no. 924. A junior objective synonym of *Vanessa*.

= ‡*Ammiralis* Rennie, 1832

Conspectus Butts. Moths: 10. Type-species: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119, by monotypy. A junior objective synonym of *Vanessa*.

= ‡*Neopyrameis* Scudder, 1889

Butts. E. U. S. & Can. 1(3): 434. Type-species: *Papilio cardui* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 475, no. 107, by monotypy. A junior objective synonym of *Cynthia*.

= *Fieldia* Niculescu, 1979

Revue vérviet. Hist. Nat. 36(1-3): 3. Type-species: *Hamadryas carye* Hübner, [1812] (as *Vanessa carye*), Samml. exot. Schmett. 1: pl. [45], figs. 1, 2, by original designation.

672. **Vanessa virginiensis** (Drury, 1773)

Illustr. Nat. Hist. 1: 10-11, pl. 5, fig. 1 ♂ D, 1a ♂ V (1770); 2: index (1773, name given).

**Original Combination:** *Papilio Cardui Virginiensis*

**Type Locality:** "New York, Maryland, and Virginia"; defined as "Virginia" on the basis of its name by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 49.

**Types:** Syntypes possibly in MAMU or lost.

= *huntera* (Fabricius, 1775)

Syst. Entomol.: 499, no. 240.

**Original Combination:** *P[apilio]. N[ymphalis]. G[emmata]. Huntera*

**Type Locality:** "Americae balsamita"

**Types:** Type(s) apparently lost.

= *iole* (Cramer, 1775)

Uitl. Kapellen 1(1): 17-18, pl. 12, figs. E ♂ D, F ♂ V (as *iole*); (8): 153 (index, as *jole*); cited *Papilio cardui virginiensis* Drury (1773), Illustr. Nat. Hist. 1: pl. 5, fig. 1, 1a.

**Original Combination:** *Pap[ilio]. Nymph[alis]. Gemmat[a]. Iole*

**Type Locality:** "Noord-America, te nieuw-Jork, Virginiën, Maryland en Jamaica" "l'Amerique septentrionale, à la Nouvelle York, à la Jamaïque"

**Types:** Type(s) probably lost.

= *fulvia* (Dodge, 1900)

Can. Entomol. 32(3): 92.

**Original Combination:** *Pyrameis huntera* var. *fulvia*

**Type Locality:** Not stated; holotype from "Louisiana, Pike County, Missouri."

**Types:** Location of holotype not known; figured by J. A. Comstock (1927), Butts. Calif.: pl. 42, fig. 9 ♂ D, from "Louisiana, Mo."

= *gnaphalii* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 102, no. 63; cited *Papilio cardui virginienensis* Drury (1773), Illustr. Nat. Hist. 1: pl. 5, fig. 1, 1a, Cramer (1775), Utit. Kapellen 1(1): pl. 12, figs. E, F, pl. 5, fig. 1, and J. E. Smith (1797), in: Smith and Abbot, Ins. Georgia 1: pl. 9.

**Original Combination:** *C[ynthia]. Gnaphalii*

Proposed as a replacement name for *Papilio cardui virginienensis*, based on a larval foodplant illustrated by Smith and Abbot; a junior objective synonym of *virginienensis*.

= *ahwashtee* C. Fox, 1921

Psyche 28(2): 45-46, pl. 2, figs. 1 ♂ D, 2 ♂ V ("holotype").

**Original Combination:** *Vanessa virginienensis* var. *ahwashtee*

**Type Locality:** "Golden Gate Park, San Francisco, California" [San Francisco County]

**Types:** "Holotype" in CAS; figured by Gunder (1927), Entomol. News 38(9): pl. 8, middle row, fig. 3 ♂ V.

The text clearly indicates that this taxon was described as an individual variant.

= *massachusettsensis* Gunder, 1925

Entomol. News 36(7): 198, no. 10, pl. 5, fig. 10 ♂ D ("holotype").

**Original Combination:** *Vanessa virginienensis* ab. ♂ *massachusettsensis*

**Type Locality:** "Southampton, Massachusetts" [Hampshire County]

**Types:** "Holotype" in AMNH; figured in J. A. Comstock (1927), Butts. Calif.: pl. 43, fig. 5 ♂ D.

= *simmsi* (Gunder, 1927)

Entomol. News 38(5): 133-134, no. 2, pl. 2, fig. 2 ♀ D ("holotype").

**Original Combination:** *Cynthia virginienensis simmsi* ♀ nov. tr. form

**Type Locality:** "Montreal, Canada" [Quebec]

**Types:** "Holotype" in BMNH; figured by Gunder (1927), Entomol. News 38(9): pl. 8, upper half, fig. 4 ♀ V.

673. *Vanessa cardui* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 475, no. 107; cited Linnaeus (1764), Fauna Svecica (ed. 1): 235-236, no. 778, among others.

**Original Combination:** *P[apilio]. Nymphalis gemmatus* *Cardui*

**Type Locality:** "Europae, Africae"; defined as "Sweden" by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 43, based on Linnaeus' reference to Fauna Svecica.

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 308.

I C.Z.N. *Direction 4* placed this name on the *Official List of Specific Names in Zoology* as name no. 259. Palaearctic infrasubspecific names are omitted from this synonymy.

= *belladonna* Godart, [1821]

Hist. Nat. Lépid. Fr. 1: 102-104, pl. 14, fig. 2.

**Original Combination:** *Papilio Belladonna*

**Type Locality:** "Paris" [France]

**Types:** Holotype possibly in MNHP.

= *elymi* Rambur, 1829

Annls. Sci. Obser. 2(2): 256-257, pl. 5, figs. 1 ♂ D, 2 ♂ V (holotype).

**Original Combination:** *Vanessa Elymi*

**Type Locality:** "les bords de la Méditerranée, aux environs de Montpellier" [France]

**Types:** Holotype possibly in MNHP or lost.

= *ate* (Strecker, 1878)

Butts. & Moths N. Am., Comp. Syn. Cat.: 137, no. 272b.

**Original Combination:** [*Pyrameis Cardui*] ab. b. *Ate*

**Type Locality:** "Summit Co., Ohio"

**Types:** "Holotype" in FMNH; figured by Gunder (1927), Entomol. News 38(9): pl. 9, upper right, D&V.

= *minor* (Cockerell, 1890)

Can. Entomol. 22(3): 57.

**Original Combination:** *Pyrameis cardui* form *minor*

**Type Locality:** "Near Micawber Mine" [Custer County, Colorado]

**Types:** "Holotype" in BMNH.

= *jacksoni* (A. Clark, 1932)

Bull. U. S. Nat. Mus. (157): 88-89, pl. 8, figs. 2 ♀ D, 3 ♀ V.

**Original Combination:** [*Pyrameis cardui*] form *jacksoni*

**Type Locality:** "District of Columbia"; figure is from "Essex, Mass." [Essex County, Massachusetts]

**Types:** No types specifically mentioned.

Earlier, A. Clark (1927), Ann. Assoc. Am. Geogr. 17(3): 127, mentioned this name as "*Cynthia cardui jacksoni*" with a "type locality" of "New England, California, Mongolia, France, etc." Although a line of description was given, that name is here considered a *nomen nudum*.



674. **Vanessa annabella** (W. D. Field, 1971)  
 Smithsonian Contrib. Zool. (84): 56-59, fig. 16 ♂ genitalia, fig. 32 ♀ genitalia, figs. 143 ♂ V, 144 ♂ D (holotype); 145 ♂ V, 146 ♂ D, 147 ♂ V, 148 ♂ D, 155 ♀ V, 156 ♀ D, 157 ♀ V, 158 ♀ D, 159 ♀ V, 160 ♀ D.  
**Original Combination:** *Cynthia annabella*  
**Type Locality:** "First valley W of Arroyo Verde Park, Ventura, Ventura Co., California"  
**Types:** Holotype ( #71044) in USNM.  
 Shapiro and Geiger (1989), J. Lepid. Soc. 43(2): 81-92, demonstrated that *V. annabella* and *V. carye* Hübner, [1812], Samml. exot. Schmett. 1: pl. [45], figs. 1 ♂ D, 2 ♂ V, are both species-level taxa.  
 = ♀ "muelleri" (Letcher, 1898)  
 Entomol. News 9(2): 38, pl. 3, lower ♀ ("holotype").  
**Original Combination:** *Pyrameis carye* n. var. *muelleri*  
**Type Locality:** "San Francisco, California" implied from the text. [San Francisco County]  
**Types:** Location of holotype not known (may have been in CAS); figured by Gunder (1927), Entomol. News 38(9): pl. 9, lower, fig. 3 ♀ D&V.  
 The text clearly indicates that this taxon was described as an individual variant.  
 = ♀ "intermedia" F. Grinnell, 1918  
 Psyche 25(5): 111-112, pl. 4, fig. 6.  
**Original Combination:** *Vanessa carye* var. *intermedia*  
**Type Locality:** "Berkeley...San Francisco" [California]  
**Types:** Location of "syntypes" not known; "holotype" from "San Francisco" figured by J. A. Comstock (1927), Butts. Calif.: pl. 44, 4 ♀ D.  
 The text clearly indicates that this taxon was described as an individual variant.  
 = ♀ "letcheri" F. Grinnell, 1918  
 Psyche 25(5): 112-113, pl. 4, fig. 8.  
**Original Combination:** *Vanessa carye* var. *letcheri*  
**Type Locality:** "Castella, Shasta Co....Berkeley...Los Angeles...18th Street Square, San Francisco...Oakland" [California]  
**Types:** Location of "syntypes" not known; "holotype" from "Castella, Shasta Co., Cal.," figured by J. A. Comstock (1927), Butts. Calif.: pl. 44, fig. 7 ♂ D.  
 The text clearly indicates that this taxon was described as an individual variant.  
 = ♀ "nivosi" (Gunder, 1927)  
 Bull. South. Calif. Acad. Sci. 26(2): 53.  
**Original Combination:** *Cynthia carye* nov. tr. f. *nivosi*  
**Type Locality:** "San Francisco" [San Francisco County, California]  
**Types:** "Holotype" in AMNH.  
 = ♀ "schraderi" (Gunder, 1929)  
 Pan-Pac. Entomol. 6(1): 9, pl. 17, ♂ D&V ("holotype"), 2 ♀ ♀ D&V.  
**Original Combination:** *Cynthia carye* tr. f. *schraderi*  
**Type Locality:** "Los Angeles, California" [Los Angeles County]  
**Types:** "Holotype" in AMNH.
- \*675. **Vanessa atalanta** (Linnaeus, 1758)  
 Syst. Nat. (ed. 10) 1: 478, no. 119; cited Linnaeus (1764), Fauna Svecica (ed. 1): 235, no. 777, among others.  
**Original Combination:** *P[apilio]. N[ymphalis phaleratus]. Atalanta*  
**Type Locality:** not stated "in Urtica"; defined as "Sweden" by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 15, based on Linnaeus' reference to Fauna Svecica.  
**Types:** Lectotype in LSUM, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 302.  
 I.C.Z.N. *Direction 4* placed this name on the *Official List of Specific Names in Zoology* as name no. 258.  
 = *amiralis* Retzius, 1783  
 Gen. Spec. Ins.: 31, no. 10; cited de Geer (1752), Mém. Hist. Ins. 1(1): pl. 22, figs. 1-5, and *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 478, no. 119.  
**Original Combination:** *P[apilio]. Amiralis*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost.
- a. **Vanessa atalanta rubria** (Fruhstorfer, 1909)  
 Int. Entomol. Z. 3(17): 94.  
**Original Combination:** *Pyrameis atalanta rubria*  
**Type Locality:** "Mexiko, Nord-Amerika"; defined as "Mexico" by W. D. Field (1971), Smithsonian Contrib. Zool. (84): 16-17.  
**Types:** Lectotype in MNHP, designated by W. D. Field (1971), *ibid.*  
 = ♀ "edwardsi" F. Grinnell, 1918  
 Psyche 25(5): 113-114, pl. 4, fig. 3.  
**Original Combination:** *Vanessa atalanta* var. *edwardsi*  
**Type Locality:** "Lagunitas, Marin Co....Buchanan and Washington Streets, San Francisco" [California]  
**Types:** Location of "syntypes" not known; "holotype" from "San Francisco," figured by J. A. Comstock (1927), Butts. Calif.: pl. 43, fig. 4 ♂ D, and Gunder (1927), Entomol. News 38(9): pl. 8, lower right, fig. 2 ♂ D&V.  
 The text clearly indicates that this taxon was described as an individual variant.
676. **Vanessa tameamea** Escholtz, 1821  
 In: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 207, pl. [5], figs. 8a ♂ D, 8b ♂ V.  
**Original Combination:** *Vanessa Tameamea*



**Type Locality:** "Wahu, einer der Sandwichinseln" [Oahu, Honolulu County, Hawaii]

**Types:** Location of type(s) not known.

This name was spelled "tammeamea" by Escholtz on plate 5. As first reviser, Kirkaldy (1906), *Entomol.* 39(517): 238-239, chose the spelling as that given in the text (Code Article 24.2.3).

= *cordelia* (E. Doubleday, [1847])

*In:* Gen. diurn. Lepid. (1)(14): pl. 25, fig. 3 [1847]; (24): 204 (1849).

**Original Combination:** *Pyrameis Cordelia*

**Type Locality:** "Sandwich Islands" [Hawaii]

**Types:** Syntype in BMNH.

E. Doubleday (1849), *in:* Gen. diurn. Lepid. (1)(24): 204, determined this synonymy.

#### Genus *Aglais* Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 56. Type-species: *Papilio urticae* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 477, no. 114, by original designation.

= *Hamadryas* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio io* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 472, no. 88, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97. I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 82.

= *Inachis* Hübner, [1819]

Verz. bekannt. Schmett. (3): 37. Type-species: *Papilio io* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 472, no. 88, by monotypy. Wahlberg and Nylin (2003), *Cladistics* 19(3): 216, 218, 221, 222, and Wahlberg *et al.* (2005), *Biol. J. Linn. Soc.* 86(2): 238, 250, determined this synonymy.

= *Ichnusa* Reuss, 1939

*Entomol. Z.* 53(1): 3. Type-species: *Papilio ichnusa* Bonelli, 1826, *Memor. Accad. Sci., Torino* 30: 174, 186, no. 1, pl. 2, fig. 2 (= *Papilio ichnusa* Hübner, [1824], *Samml. europ. Schmett.* 1: pl. 170, fig. 840).

#### 677. *Aglais milberti* (Godart, 1819)

##### a. *Aglais milberti viola* dos Passos, 1938

*Can. Entomol.* 70(4): 73, pl. 4, fig. 5 ♂ D (holotype), 6 ♀ D.

**Original Combination:** [*Aglais milberti*] *viola*

**Type Locality:** "Doyle's Station, Newfoundland" [Newfoundland and Labrador]

**Types:** Holotype in AMNH.

##### b. *Aglais milberti milberti* (Godart, 1819)

*Ency. méth.* 9(Ins.) (1): (293), 307-308, no. 25; figured by Boisduval and Le Conte [1835], *Hist. Lépid. Amér. sept.* (17): pl. 50, figs. 3 ♂ D, 4 ♂ V.

**Original Combination:** *Vanessa Milberti*

**Type Locality:** "Etats Unis d'Amerique"; defined as "neighborhood of Philadelphia, Pa." by dos Passos (1938), *Can. Entomol.* 70(4): 72. [Pennsylvania]

**Types:** Holotype in USNM; figured by dos Passos (1938), *Can. Entomol.* 70(4): pl. 4, fig. 1 ♂ D.

= *furcillata* (Say, 1825)

*Am. Entomol.* 2: pl. 27, 2 unnumbered pages.

**Original Combination:** *Vanessa Furcillata*

**Type Locality:** "North-West Territory...vicinity of Fort William, an establishment of the Hudson Bay Fur Company" [Ontario]

**Types:** Type(s) apparently lost.

= *rothkei* Gunder, 1927

*Can. Entomol.* 59(12): 286, no. 18, pl. B, figs. 18 ♂ D, 18b ♂ V ("holotype").

**Original Combination:** *Aglais milberti* tr. f. *rothkei*

**Type Locality:** "Scranton, Pa." [Lackawanna County, Pennsylvania]

**Types:** "Holotype" in AMNH.

##### c. *Aglais milberti subpallida* (Cockerell, 1889)

*Entomol.* 22(314): 85.

**Original Combination:** [*Vanessa milberti*] var. *subpallida*

**Type Locality:** "West Cliff" [Westcliff, Custer County, Colorado]

**Types:** Holotype (#8683) in BMNH; figured by dos Passos (1938), *Can. Entomol.* 70(4): pl. 4, fig. 3 ♂ D.

##### d. *Aglais milberti pullum* (Austin, 1998)

*Syst. W. N. Am. Butts.* (46): 578, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V.

**Original Combination:** *Nymphalis milberti pullum*

**Type Locality:** "Arizona: Apache County; White Mountains, Ditch Camp"

**Types:** Holotype in MGCL.

#### Genus *Nymphalis* Kluk, 1780

Zwierz. Hist. Nat. Pocz. Gospod. 4: 86-89, no. 148. Type-species: *Papilio polychlora* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1: 477, no. 113, by designation of Hemming (1933), *Entomol.* 66(10)[845]: 223. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 702.

- = *Scudder* Grote, 1873  
Can. Entomol. 5(8): 144. Type-species: *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112, by monotypy. Preoccupied by *Scudder* Stål, 1873, Öfvers. K. VetenskAkad. Förh. 30: 41.
  - = *Euwanessa* Scudder, 1889  
Butts. E. U. S. & Can. 1(3): 387. Type-species: *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112, as a replacement name. Proposed to replace *Scudder* Grote, 1873, preoccupied (Code Articles 60.3, 67.8).
  - = *Roddia* Korshunov, 1995  
In: Korshunov and Gorbunov, Butts. Asiatic Russia: 81-82. Type-species: *Papilio l-album* Esper, 1781, Die Schmett. 1(2)(2): pl. 62 (cont. 12), figs. 3a, 3b; (3): 69-71, by original designation. Wahlberg and Nylin (2003), Cladistics 19(3): 221-222, and Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 235, 238, 250, determined this synonymy.
  - = *Antiopana* Korb, 2005  
Cat. Butts. ex USSR: 72. Type-species: *Papilio antiopa* Linnaeus, 1758, by original designation. A junior objective synonym of *Euwanessa*.
- \*678. **Nymphalis l-album** (Esper, 1781)  
Die Schmett. 1(2)(2): pl. 62 (cont. 12), figs. 3a ♂ D&V, 3b ♀ D&V; cited *Papilio vau album* [Schifferrmüller] (1775), Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176.  
**Original Combination:** *P[apilio]*. *Nymph[alis]*. *Phal[erata]*. *L. album*  
**Type Locality:** "Ungarn und Oesterreich"; fig. 3 is from "der Gegend von Wien" [Vienna, Austria]  
**Types:** Location of type(s) not known, probably lost.
- = *vaualbum* ([Schifferrmüller], 1775) (emended)  
Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 176.  
**Original Combination:** *P[apilio]*. *Vau album*  
**Type Locality:** "Wienergegend" implied from the title of the work. [Vienna, Austria]  
**Types:** Type(s) probably lost.  
Gillham (1956), Psyche 63(1): 28, suggested that this name is a *nomen nudum*, and Koçak (1981), Priamus 1(2): 77, note 73, determined the same. Koçak (1986), Priamus 4(1/2): 24, no. 618, further demonstrated that this name, as proposed by [Schifferrmüller], was not accompanied by a description, definition or indication, and stated that *Papilio l-album* Esper, 1780, is the oldest available name for this taxon (also see Kudrna (1986), Butts. Europ. 8, Section 4.5: 168, and Kudrna and Belicek (2005), Oedipus 23: 1-32). A petition (Case 3241) has been submitted to the I.C.Z.N. concerning various names from [Schifferrmüller], 1775. In anticipation of a ruling by the I.C.Z.N. on the status of Schifferrmüller's names, *vaualbum* is herein considered unavailable.
  - = *"chelone"* Schultz, 1903  
Dtsche. Entomol. Z. "Iris" 15(2): 324-325.  
**Original Combination:** *Vanessa l-album* aberr. *chelone*  
**Type Locality:** "Oesterreich"  
**Types:** Location of "type(s)" not known.
- a. **Nymphalis l-album j-album** (Boisduval & Le Conte, [1835])  
Hist. Lepid. Amér. sept. (17): pl. 50, figs. 1 ♀ D, 2 ♀ V; (21): 185-186.  
**Original Combination:** *V[anessa]*. *J. Album*  
**Type Locality:** "environs de New-York, de Philadelphie et de New-Harmony-Indiana"  
**Types:** Types were the specimens upon which Émile Blanchard based his illustrations, probably from Boisduval's collection, possibly in USNM or MNHP.
- = *"aureomarginata"* (Cockerell, 1889)  
Entomol. 22(311): 100; cited an unspecified Maynard reference. This is herein determined to be Maynard (1886), Butts. N. England (ed. 1): 15, where Maynard described the suppression of the dorsal marginal pattern.  
**Original Combination:** *Grapta j-album aureomarginata*  
**Type Locality:** Not stated, "New England" implied from the title of Maynard's work.  
**Types:** "Holotype" may be in MCZ or lost.  
The text clearly indicates that this taxon was described as an individual variant.  
*"pocahontas"* Scudder, 1889  
Butts. E. U. S. & Can. 1(3): 379.  
**Original Combination:** [*Eugonia j-album*] = *Vanessa pocahontas* Harr., manuscript  
Proposed in the synonymy of *j-album* without a description or indication; a *nomen nudum*.
- b. **Nymphalis l-album watsoni** (G. Hall, 1924)  
J. N. Y. Entomol. Soc. 32(2): 109, pl. 11, fig. 1 ♂ V (holotype).  
**Original Combination:** *Aglais j-album watsoni*  
**Type Locality:** "Sicamous, British Columbia"  
**Types:** Holotype in AMNH.
679. **Nymphalis californica** (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2)10(2): 306, no. 51.  
**Original Combination:** *Vanessa Californica*  
**Type Locality:** "Californie"; defined as "Queen Lily Campground, near Belden, North Fork Feather River Canyon, 2400' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 18.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 19, figs. 105 ♂ D, 106 ♂ V.  
= *herri* W. D. Field, 1936  
Entomol. News 47(5): 121-122.



**Original Combination:** *Nymphalis californica* new race *herri*

**Type Locality:** "Buckhorn Mountains, Washington" [Okanogan County]

**Types:** Holotype in USNM.

A. Warren (2005), Butts. Ore.: 262, determined this synonymy.

680. ***Nymphalis antiopa*** (Linnaeus, 1758)

a. ***Nymphalis antiopa antiopa*** (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 476-477, no. 112; cited Linnaeus (1746), Fauna Svecica: 232, no. 772, among others.

**Original Combination:** *P[apilio]*. *N[ympalis phaleratus]* *Antiopa*

**Type Locality:** "etiam in Americae. Kalm"; "Sweden" implied from the reference to Fauna Svecica.

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 297.

= *pompador* (Pollich, 1779)

Bemerk. Chürpfalz. Oekon. Ges. [1779]: 253.

**Original Combination:** *Papilio Pompador*

**Type Locality:** "Pfalz"

**Types:** Type(s) probably lost.

= *morio* (Retzius, 1783)

Gen. Spec. Ins.: 31, no. 9; cited de Geer (1752), Mém. Hist. Ins. 1(1): 305, figs. 1-9, and *Papilio atalanta* Linnaeus, 1758,

Syst. Nat. (ed. 10) 1: 476-477, no. 112.

**Original Combination:** *P[apilio]*. *Morio*

**Type Locality:** Not stated.

**Types:** Location of types not known.

= *lintnerii* (Fitch, 1857)

Trans. N. Y. State Agric. Soc. 16(1856): 485, no. 211.

**Original Combination:** *Vanessa Lintnerii*

**Type Locality:** "New York"; probably "Schoharie, Schoharie County" where Lintner lived.

**Types:** Probably lost; no specimens were mentioned from the NYSM by J. Barnes (1988), Bull. N. Y. State Mus. (461): 112.

= *thompsonii* (Butler, 1887)

Ann. Mag. Nat. Hist. (5)19(110): 104.

**Original Combination:** *Vanessa Thomsonii*

**Type Locality:** "British Honduras?"

**Types:** Holotype in BMNH.

= *hyperborea* (Seitz, 1913)

In: Seitz, Grossschmett. Erde 5(188) pl. 93f, fig. [1] ♀ D; (189): 457.

**Original Combination:** *Vanessa antiopa* var. *hyperborea*

**Type Locality:** "allerhöchsten Norden, in Alaska"

**Types:** Location of type(s) not known, possibly in SMNS.

Shapiro (1981), J. Lepid. Soc. 35(2): 124-131, considered this a subspecies-level taxon, while Layberry, *et al.* (1998), Butts. Can.: 203, treated this as a synonym of *N. a. antiopa*.

= *borealis* (Wnukowsky, 1927)

Mitt. Münchn. Entomol. Ges. 17(7-12): 69, no. 2.

**Original Combination:** *Vanessa (Euvanessa) antiopa borealis*

**Type Locality:** "Siberia septentrionalis-orientalis (Jakutsk)"

**Types:** Syntypes in UTR.

= #*hygiaea* (Heydenreich, 1851)

Lepid. Europ. Cat. Meth. (Edit. 3): 7; cited *Papilio antiopa* (*sensu* Hübner [1836], Samml. europ. Schmett. 1: fig. 993, *sensu* Herbst (1794), in: Jablonsky, Natursyst. Ins., Schmett. 7: pl. 168, figs. 1, 2, *sensu* Esper (1777) Die Schmett. 1(1)(5): pl. 29, fig. 2, and *sensu* Freyer [1835], Neuer Beitr. Schmett. 2(25): pl. 145).

**Original Combination:** *Vanessa [Antiopa]* ab. *Hygiaea*

**Type Locality:** Not stated.

**Types:** Possible "syntype(s)" in NMW and ZSMC.

This name was mentioned by Heydenreich (1846), Verz. europ. Schmett. (ed. 2): 1 (as *Vanessa antiopa* v[ar]. *hygiaea*), without a description or indication; a *nomen nudum*.

= #*betulae* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 111, no. 2; cited *Papilio antiopa* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476-477, no. 112.

**Original Combination:** *V[anessa]*. *Betulae*

Proposed as a replacement name for *Papilio antiopa* Linnaeus, 1758, based on a larval foodplant; a junior objective synonym of *antiopa*.

= #*bibla* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 111, no. 3.

**Original Combination:** *V[anessa]*. *Bibla*

**Type Locality:** "Pennsylvania Dom. Smidt Barton"

**Types:** Location of type(s) not known.

= #*obscura* (Cockerell, 1890)

Entomol. Rec. & J. Var. 1(1): 14; cited the description of a specimen by Bunker (1876), Can. Entomol. 8(12): 240.

**Original Combination:** *Vanessa antiopa* [= var *obscura*]

**Type Locality:** "near Rochester, in New York State" [Monroe County]



**Types:** Location of "holotype" not known.

The text clearly indicates that this taxon was described as an individual variant.

= *†*"hippolyta" (Lyman, 1898)

Can. Entomol. 30(3): 49, pl. 4, fig. 6 ♀ D ("holotype").

**Original Combination:** [*Vanessa Antiopa*] ab. *Hippolyta*

**Type Locality:** "Boundary Creek, B. C." [British Columbia]

**Types:** "Holotype" in LEMQ.

= *†*"grandis" (Ehrmann, 1900)

Can. Entomol. 32(11): 348.

**Original Combination:** *Vanessa antiopa*, Var. *grandis* ♀, nov. var.

**Type Locality:** "S. W. Penn'a." [Pennsylvania]

**Types:** "Holotype" in CMNH; figured by W. Holland (1927), Ann. Carnegie Mus. 17(2): pl. 25, fig. 5 ♀ D.

The text clearly indicates that this taxon was described as an individual variant.

#### Genus *Polygonia* Hübner, [1819]

Verz. bekannt. Schmett. (3): 36. Type-species: *Papilio c-aureum* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 116, by designation of Scudder (1872) 4th Ann. Rept. Peabody Acad. Sci. (1871): 30. The arrangement of *Polygonia* taxa follows Weingartner *et al.* (2006), J. Evol. Biol. 19(2): 483-491.

= *Eugonia* Hübner, [1819]

Verz. bekannt. Schmett. (3): 36-37. Type-species: *Papilio angelica* Stoll, 1782, Utitl. Kapellen 4(33): 204, pl. 388, figs. G, H; (34): 247 (index) (= *Papilio c-aureum* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 116; synonym), by designation of Grote (1873), Can. Entomol. 5(8): 144.

= *Comma* Rennie, 1832

Conspectus Butts. Moths: 8. Type-species: *Papilio c-album* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 477, no. 115, by monotypy.

= *Grapta* W. Kirby, 1837

In: Richardson, Fauna Bor.-Am. [4]: 292. Type-species: *Vanessa (Grapta) c-argenteum* W. Kirby, 1837, in: Richardson, Fauna Bor.-Am. [4]: 292, pl. 3, figs. 6, 7 (= *Papilio progne* Cramer, 1775, Utitl. Kapellen 1(1): 9, pl. 5, figs. E, F; synonym), by monotypy.

= *Kaniska* Moore, [1899]

Lepid. Ind. 4(41): 91. Type-species: *Papilio canace* Linnaeus, 1763, in: Johansson, Cent. Ins. Rar.: 23-24, no. 68, by original designation. Wahlberg and Nylin (2003), Cladistics 19(3): 221-222, and Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 250, determined this synonymy.

681. ***Polygonia interrogationis*** (Fabricius, 1798)

Entomol. Syst. 3(suppl.): 424.

**Original Combination:** *P[apilio]. N[ymphalis] Interrogationis*

**Type locality:** "America boreali"

**Types:** Syntypes in ZMUC.

= *umbrosa* (Lintner, 1869)

Trans. Am. Entomol. Soc. 2(4): 313-316.

**Original Combination:** *Grapta umbrosa*

**Type Locality:** "Schoharie" [Schoharie County, New York]

**Types:** Syntypes may be in NYSM.

= *crameri* (Scudder, 1870)

Proc. Boston Soc. Nat. Hist. 13: 276; cited *Papilio c-aurem* (sensu Cramer (1775), Utitl. Kapellen 1(2): pl. 19, figs. E, F, and sensu J. E. Smith (1797), in: Smith and Abbot, Ins. Georgia 1: pl. 11).

**Original Combination:** *G[rapta]. Crameri*

**Type Locality:** Not stated; Cramer listed "Jamaica" "Jamaïque" in error; "Georgia" implied from the Smith and Abbot citation.

**Types:** Type(s) should be in MCZ.

= *fabricii* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 5-7; figured by W. H. Edwards [1872], Butts. N. Am. 1(9): pl. Grapta 5, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *G[rapta]. Fabricii*

**Type Locality:** "West Virginia"; defined as "[Coalburgh,] West Virginia" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 323. [Kanawha County]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 325, fig. 1 ♂ D&V.

= *†tiliae* (Fabricius, 1938)

In: Bryk, Syst. Glossat.: 90, no. 8; cited *Papilio interrogationis* Fabricius, 1798, Entomol. Syst. 3(suppl.): 424.

**Original Combination:** *C[ynthia]. Tiliae*

Proposed as a replacement name for *Papilio interrogationis* Fabricius, 1798, based on a larval foodplant illustrated by Smith and Abbot; a junior objective synonym of *interrogationis*.

682. ***Polygonia comma*** (T. Harris, 1842)

Rep. Ins. Mass.: 221.

**Original Combination:** *Vanessa Comma*

**Type Locality:** "Massachusetts" implied from the title of the book.

**Types:** Syntypes (#26345) in MCZ.

= *dryas* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 17-18, no. 10; figured by W. H. Edwards (1871), Butts. N. Am. 1(8): pl. Grapta 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Grapta Dryas*

**Type Locality:** "Coalburgh, W. Va." [Kanawha County, West Virginia]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 327, fig. 2 ♂ D&V.

This name was employed by W. H. Edwards (1870), Trans. Am. Entomol. Soc. 3(1): 7, without a description or indication; a *nomen nudum*.

= *harrisii* (W. H. Edwards, 1873)

Can. Entomol. 5(10): 185; figured by W. H. Edwards (1871), Butts. N. Am. 1(8): pl. Grapta 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V (as *Grapta comma*).

**Original Combination:** [*Grapta*] *comma* var. *Harrisii*

**Type Locality:** "Coalburgh" [Kanawha County, West Virginia]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 329, fig. 3 ♂ D&V.

The text clearly indicates that this taxon was described as an individual variant.

*umbrosa* Scott, 1984

J. Res. Lepid. 23(3): 208.

**Original Combination:** *Polygonia comma* summer form *umbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

# 683. *Polygonia satyrus* (W. H. Edwards, 1869)

## a. *Polygonia satyrus satyrus* (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 374-375; figured by W. H. Edwards (1872), Butts. N. Am. 1(10): pl. Grapta 6, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Grapta Satyrus*

**Type Locality:** "Rocky Mountains, Colorado"; defined as "vicinity of Empire, Clear Creek Co., Colorado" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 330-331.

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 331, fig. 4 ♂ D&V.

= *chrysoptera* W. G. Wright, 1905

Butts. W. Coast. 56, no. 222; 172, no. 222, pl. 22, figs. 222 ♂ D (lectotype), 222b ♀ D, 222c ♂ V.

**Original Combination:** [*Grapta*] *Chrysoptera*; *Grapta Chrysoptera* n. s.

**Type Locality:** "California" "Lake County, Cal....Mendocino County, Cal."

**Types:** Lectotype (#4311) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 25.

= *hollandi* Gunder, 1927

Bull. South. Calif. Acad. Sci. 26(2): 53; cited W. H. Edwards (1879), Butts. N. Am. 2(8): pl. Grapta 3, figs. 5 ♀ D, 6 ♀ V.

**Original Combination:** *Polygonia satyrus marsyas* nov. tr. f. *hollandi*

**Type Locality:** Not stated; "Navarro, Cal." implied by W. H. Edwards (1879), Butts. N. Am. 2(8): [196].

**Types:** Holotype probably in CMNH, if it can be recognized. This name was proposed for figures 5 and 6 by W. H. Edwards (1879), *ibid*.

## b. *Polygonia satyrus neomarsyas* dos Passos, 1969

Trans. Am. Entomol. Soc. 95(1): 155-158, figs. 1 ♂ D&V (holotype), 2 ♀ D&V.

**Original Combination:** *Polygonia satyrus neomarsyas*

**Type Locality:** "Salmon Meadows, Brewster, Washington" [Okanogan County]

**Types:** Holotype in CMNH.

= *transcanada* Scott & Kondla, 2006

Papilio (n.s.) 12: 38, pl. 4, 6th row right ♂ D&V (holotype).

**Original Combination:** *Polygonia satyrus transcanada*

**Type Locality:** "Temiscouata Co. Quebec"

**Types:** Holotype in BMNH.

This name was proposed for boreal populations of *P. satyrus*, adults of which average smaller and darker than those of typical *P. s. satyrus*. However, dos Passos (1969), Trans. Am. Entomol. Soc. 95(1): 158, proposed the name *neomarsyas* to represent the same northern populations as those represented by *transcanada*; thus, *neomarsyas* must take precedence over *transcanada*.

# 684. *Polygonia progne* (Cramer, 1775)

Uitl. Kapellen 1(1): 9, pl. 5, figs. E ♂ D, F ♂ V; (8): 154 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phalerat[a]. Progne*

**Type Locality:** "Jamaica, envalt ook in Nieuw-Jork" "Jamaïque & à Nouvelle-York" [New York]

**Types:** Type(s) probably lost.

= *c-argenteum* (W. Kirby, 1837)

In: Richardson, Fauna Bor.-Am. [4]: 292, no. 1, pl. 3, figs. 6 ♀ D, 7 ♀ V.

**Original Combination:** *Vanessa (Grapta) C. argenteum*

**Type Locality:** "Lat. 54"; suggested to be "(Cumberland House?)" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 171.

**Types:** Type(s) possibly in BMNH.

= *martineae* Coleman, 1919

Entomol. News 30(4): 112-113, fig. ♀ D.

**Original Combination:** *Polygonia progne* ab. nov. *martineae*

**Type Locality:** "probably captured in Connecticut"

**Types:** "Holotype" (#5500) in PMNH.

‡"l-argenteum" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 253, no. 79.

**Original Combination:** [*Polygonia Progne*] [form] *l-argenteum*

Proposed in the synonymy of *progne* without a description or indication; a *nomen nudum*.

‡"umbrosa" Scott, 1984

J. Res. Lepid. 23(3): 208.

**Original Combination:** *Polygonia progne* summer form *umbrosa*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

685. ***Polygonia oreas*** (W. H. Edwards, 1869)

a. ***Polygonia oreas oreas*** (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 373.

**Original Combination:** *Grapta Oreas*

**Type Locality:** "California"; suggested to be "mountains of northern California" by dos Passos and F. Brown (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 354-355.

**Types:** Neotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 354-355, fig. 10 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 27 ♂ V.

b. ***Polygonia oreas silenus*** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 15, no. 7; figured by W. H. Edwards (1875), Butts. N. Am. 2(2): pl. Grapta 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Grapta Silenus*

**Type Locality:** "Oregon"; neotype from "Portland, Multnomah County, Oregon."

**Types:** Neotype in AMNH, designated by dos Passos and F. Brown (1967) in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 358, fig. 11 ♀ D&V.

c. ***Polygonia oreas threatfuli*** C. Guppy & J. Shepard, 2001

Butts. B. C.: 254-255, figs. ♀ D&V (holotype).

**Original Combination:** *Polygonia oreas threatfuli*

**Type Locality:** "BC, Vernon, Kalamalka L. Prov. Park" [British Columbia]

**Types:** Holotype in BCPM.

d. ***Polygonia oreas satellow*** Scott, 2006

Papilio (n.s.) 12: 39, pl. 4, 6th row left ♂ D&V (holotype), pl. 5, 3rd row right ♀ D&V.

**Original Combination:** *Polygonia oreas satellow*

**Type Locality:** "8 mi. NE Cedaredge, 7500', Delta Co. Colo., rearing lot W" [Colorado]

**Types:** Holotype in BMNH.

e. ***Polygonia oreas nigrozephyrus*** Scott, 1984

J. Res. Lepid. 23(3): 201-202, fig. 1, first row ♂♂, second row ♂♂ (last right holotype), 3rd row ♀♀, 4th row ♀♀, 5th row ♀♀, fig. 2 all the same V.

**Original Combination:** *Polygonia progne nigrozephyrus*

**Type Locality:** "Lump Gulch, Gilpin Co., Colorado"

**Types:** Holotype in UCMC.

686. ***Polygonia gracilis*** (Grote & Robinson, 1867)

a. ***Polygonia gracilis gracilis*** (Grote & Robinson, 1867)

Ann. N. Y. Lyc. Nat. Hist. 8: 432-433.

**Original Combination:** *Grapta gracilis*

**Type Locality:** "Atlantic District (Mount Washington, N. H.!)" [Coos County, New Hampshire]

**Types:** Syntypes may be in NYSM or AMNH.

b. ***Polygonia gracilis zephyrus*** (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(1): 10, 16, no. 8; figured by W. H. Edwards (1872), Butts. N. Am. [1](10): pl. Grapta 6, figs. 5 ♂ D, 6 ♂ V, 7 ♀ V.

**Original Combination:** *Grapta Zephyrus*

**Type Locality:** "Virginia City...Colorado...Fort Simpson. Mckenzie's River"; defined as "Virginia City, Storey County, Nevada" by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 347-[349].

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 350, fig. 9 ♂ D&V.

‡"thiodamus" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 252, no. 75.

**Original Combination:** [*Polygonia Zephyrus*] (= *thiodamus*)

Proposed in the synonymy of *zephyrus* without a description or indication; a *nomen nudum*.

687. ***Polygonia faunus*** (W. H. Edwards, 1862)

a. ***Polygonia faunus smythi*** A. Clark, 1937

Proc. U. S. Nat. Mus. 84(3013): 219, pl. 10, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V.

**Original Combination:** *Polygonia faunus smythi*

**Type Locality:** "Mount Rogers (Balsam Mountain), Grayson County, Va., about 4,000 feet"

**Types:** Holotype (#51846) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): frtspc., figs. 3 ♂ D, 6 ♂ V, pl. 5, figs. a ♂ D, b ♂ V.

b. ***Polygonia faunus faunus*** (W. H. Edwards, 1862)

Proc. Acad. Nat. Sci. Philad. 14(5): 221, 222-223, no. 2; figured by W. H. Edwards (1870), Butts. N. Am. 1(5): pl. Grapta 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.



**Original Combination:** *Grapta Faunus*

**Type Locality:** "Catskill Mountains, New York...Fort Simpson, at Albany River...Lake Winnipeg"; defined as "Hunter, Green Co., New York" by dos Passos (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 336.

**Types:** Lectotype in CMNH, designated by dos Passos and F. Brown, in: F. Brown, 1967, Trans. Am. Entomol. Soc. 93(3): 338, fig. 5 ♂ D&V.

‡"virescens" Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 252, no. 76.

**Original Combination:** [*Polygonia Faunus*] (= *virescens*)

This name was mentioned in the synonymy of *faunus* without a description or indication; a *nomen nudum*.

c. ***Polygonia faunus arcticus*** Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 56-57, no. 32.

**Original combination:** *Polygonia faunus* race *arcticus*

**Type Locality:** "base of Black Mountain, near Aklavik, N.W. Terr." [Northwest Territories]

**Types:** Holotype in OSU.

Genus-species gender conformation is *arctica*.

= *cenveray* Scott & Kondla, 2006

*Papilio* (n.s.) 12: 40, pl. 4, 6th row center ♂ D&V (holotype).

**Original Combination:** *Polygonia faunus cenveray*

**Type Locality:** "Halfmoon Park, Crazy Mts., Sweet Grass Co. Mont." [Montana]

**Types:** Holotype in BMNH.

d. ***Polygonia faunus rusticus*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 107-108; figured by W. H. Edwards (1879), Butts. N. Am. 2(8): pl. *Grapta* 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Grapta Rusticus*

**Type Locality:** "Big Trees, California, and on Vancouver's Island"; defined as "Big Trees, California", by dos Passos (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 341. [Calaveras County]

**Types:** Lectotype in AMNH, designated by dos Passos and F. Brown (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 343-344, fig. 7 ♂ D&V.

= *silvius* (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(2): 108-109.

**Original Combination:** *Grapta Silvius*

**Type Locality:** "California"; defined as "Yosemite Valley, Yosemite Natl. Park, California" by dos Passos (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 344.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 71, fig. 7 ♀ D; figured by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 347, fig. 8 ♀ D&V.

e. ***Polygonia faunus fulvescens*** J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (12): 139-140, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Polygonia faunus fulvescens*

**Type Locality:** "California: San Mateo County; Pescadero Creek, 400' elevation, near Portola State Park"

**Types:** Holotype in LACM.

f. ***Polygonia faunus hylas*** (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 68-69, no. 8; figured by W. H. Edwards (1875), Butts. N. Am. 2(4): pl. *Grapta* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Grapta Hylas*

**Type Locality:** "Colorado"; defined as "near Berthoud Pass, with little doubt on the southern slope" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161; listed as "Berthoud Pass, Colorado" by dos Passos (1967), in: F. Brown, Trans. Am. Entomol. Soc. 93(3): 339. [Clear Creek (S slope)-Grand counties]

**Types:** Lectotype in CMNH, designated by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 341, fig. 6 ♂ D&V.

= ‡"orpheus" Cross, 1936

Pan-Pac. Entomol. 12(4): 197.

**Original Combination:** *Polygonia hylas orpheus* n. form

**Type Locality:** "Deer Creek Canyon, near Denver, Colorado" [Douglas County]

**Types:** Holotype in DNHG.

The text clearly indicates that this taxon was described as an individual variant.

‡"silvius" Scott, 1984

J. Res. Lepid. 23(3): 209.

**Original Combination:** *Polygonia faunus hylas* form *silvius*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Tribe **Victorinini** Scudder, 1893

Proc. Am. Acad. Arts Sci., Boston 27: 236-237. Type-genus: *Victorina* Blanchard, 1840, in: Castelnau, Hist. Nat. Ins. 3: 447.

Genus **Anartia** Hübner, [1819]

Verz. bekannt. Schmett. (3): 33. Type-species: *Papilio jatrophae* Linnaeus 1763, in: Johansson, Cent. Ins. Rar.: 25, no. 73, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 111, no. 73.

- = *Celoena* Boisduval, 1870  
 Consid. Lépid. Guat.: 38. Type-species: *Papilio fatima* Fabricius, 1793, Entomol. Syst. 3(1): 81, no. 252, by monotypy.
- = *Anartiella* Fruhstorfer, 1907  
 Int. Entomol. Z. 1(16): 112. Type-species: *Vanessa lytrea* Godart, 1819, in: Enc. méth. 9(Ins.) (1): (291), 299, no. 7, by monotypy.  
 ‡*Celaena* E. Doubleday, 1849  
 In: Gen. diurn. Lepid. (1) (26): 214. Type-species: *Papilio fatima* Fabricius, 1793, Entomol. Syst. 3(1): 81, no. 252, by designation of Hemming (1941), J. Soc. Bibl. Nat. Hist. 1(11): 425-426. Proposed in synonymy; a *nomen nudum*.
- \*688. **Anartia jatrophae** (Linnaeus, 1763)  
 In: Johansson, Cent. Ins. Rar.: 15, no. 73; cited Merian (1705), Ins. Surinam.: 4, pl. 4. Often cited as *Amoen. acad.* 6: 408, no. 73, a subsequent reprint.  
**Original Combination:** *Papilio jatrophae* *N[ymphalis]*.  
**Type Locality:** "Jatropha Americas"; defined as "Surinam" by Munroe (1942), Am. Mus. Novit. (1179): 2.  
**Types:** Lectotype in UZIU, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 339.
- = *corona* Gosse, 1880  
 Entomol. 13(209): 199, pl. 8, fig. 1.  
**Original Combination:** *Anartia jatrophae corona*  
**Type Locality:** "near Asunción" [Paraguay]  
**Types:** Holotype in BMNH.
- = *pallida* Köhler, 1923  
 Z. wiss. InsektBiol. 18(12) (Sonderheft): 24, pl. 2, fig. 12.  
**Original Combination:** [*Anartia jatrophae*] var. *pallida*  
**Type Locality:** "Misiones" [Argentina]  
**Types:** Syntype(s) in MLP.
- = *margarita* Oberthür, 1896  
 Étud. d'entomol. 20: 30, pl. 9, fig. 18.  
**Original Combination:** [*Anartia jatrophae*] ab. *margarita*  
**Type Locality:** "Brazil, Bahia"  
**Types:** "Holotype" in BMNH.
- a. **Anartia jatrophae guantanamo** Munroe, 1942  
 Am. Mus. Novit. (1179): 2.  
**Original Combination:** *Anartia jatrophae guantanamo*  
**Type Locality:** "San Carlos Estate, Guantanamo, Oriente, Cuba"  
**Types:** Holotype in AMNH.
- b. **Anartia jatrophae luteipicta** Fruhstorfer, 1907  
 Int. Entomol. Z. 1(16): 112.  
**Original Combination:** [*Anartia*] *jatrophae luteipicta*  
**Type Locality:** "Honduras"; defined as "Honduras, Cortés, San Pedro Sula" by Lamas and Small (1992), in: Quintero and Aiello (eds.), Ins. Panama Mesoamer.: 563, list.  
**Types:** Syntypes in BMNH.
689. **Anartia fatima** (Fabricius, 1793)  
 a. **Anartia fatima fatima** (Fabricius, 1793)  
 Entomol. Syst. 3(1): 81, no. 252; cited Jones' *Icones* 5: pl. 12, fig. 1.  
**Original Combination:** *P[apilio]. N[ymphales] Fatima*  
**Type Locality:** "Indiis Mus. Dom. Jones"  
**Types:** Type(s) probably lost.  
 As originally proposed, this name is preoccupied by *Papilio fatima* Cramer, 1780, Uitl. Kapellen 3(23): 141, pl. 271, fig. A; (24): 174 (index). I.C.Z.N. *Opinion* 1339 exempted *fatima* Fabricius, 1793, from application of the Principle of Homonymy (Code Articles 52, 81.2). Some have considered this taxon to be a subspecies of *A. amathea* Linnaeus (1758), Syst. Nat. (ed. 10) 1: 478, no. 118. However, Davies *et al.* (1997), Proc. R. Soc. Lond. (B) Biol. Sci. 264(1383): 845-851, Dasmahapatra *et al.* (2002), Evolution 56(4): 741-753, and Blum *et al.* (2003), Mol. Phylogen. Evol. 26(1): 46-55, determined that *A. fatima* and *A. amathea* are both species-level taxa.
- = *kühlweini* Geyer, 1833  
 In: Hübner, Zutr. Samml. exot. Schmett. 4: 6, cited unpublished figs. 813, 814 (1832); 5: pl. [140], figs. 813, 814 (1833).  
**Original Combination:** *Anartia Kuhlweini*  
**Type Locality:** "Mexico"  
**Types:** Type(s) probably lost.
- = *venusta* Fruhstorfer, 1907  
 Int. Entomol. Z. 1(16): 111.  
**Original Combination:** [*Anartia*] *fatima* form *venusta*  
**Type Locality:** "Mexiko...Guatemala"  
**Types:** Syntypes may be in BMNH or MNHP.
- = *moreno* Kruck, 1931  
 Entomol. Rdsch. 48(22): 234-235, fig. 1 ♂ D.  
**Original Combination:** *Anartia moreno*  
**Type Locality:** "Meimat, Mexiko-Süd, Dep. Oaxaca"

**Types:** Syntypes in Kruck collection; R. Fox (1942), Reading Pub. Mus. & Art Gallery, Sci. Pubs. No. 4: 18-19, pl. 1, figured one of two specimens cited in the original description, from "San Christobal, Dep't Chiapas, Mex."

= ♀ "albifasciata" Hoffmann, 1940

An. Inst. Biol. Univ. Méx. 11(1): 281, no. 2.

**Original Combination:** *Anartia fatima* forma *albifasciata*

**Type Locality:** "las regiones húmedas...Mexico"

**Types:** "Syntypes" in AMNH.

= ♀ "albifusa" Hoffmann, 1940

An. Inst. Biol. Univ. Méx. 11(1): 281-282, fig. 6 ♀ D, 7 ♀ V ("holotype").

**Original Combination:** *Anartia fatima* ab. *albifusa*

**Type Locality:** "Tierra Blanca, lugar situado en la tierra caliente del Estado de Veracruz" [Mexico]

**Types:** "Holotype" in AMNH.

= ♀ "oscurata" R. de la Maza, 1976

Revta. Soc. Méx. Lepid. 2(2): 103; figured by R. de la Maza (1987), Marip. Méx.: pl. 3, fig. 9 ♂ D.

**Original Combination:** *Anartia fatima* ab. *oscurata*

**Type Locality:** "Cerro El Vigia, Veracruz, Mexico"

**Types:** Location of "holotype" not known.

♀ "mirus" L. Martin, Talbot & Jullien, 1923

Fruhstorfer Colln.: 54.

**Original Combination:** *Anartia fatima mirus*

Proposed without a description or indication; a *nomen nudum*.

690. *Anartia chrysopelea* Hübner, [1831]

Zutr. Samml. exot. Schmett. 3: pl. [95], figs. 547 ♀ D, 548 ♀ V [1824]; 34, no. 274 ([1831], name given).

**Original Combination:** *Anartia Chrysopelea*

**Type Locality:** "Cuba"; defined as "Cuba, La Habana" by Silberglied *et al.* (1979), Psyche 86(2/3): 228.

**Types:** Type(s) probably lost.

Recorded from Key West, Monroe County, Florida, by Anderson (1974), J. Lepid. Soc. 28(4): 356, fig. 3.

= *eurytis* Fruhstorfer, 1907

Int. Entomol. Z. 1(16): 112.

**Original Combination:** [*Anartiella*] *lytrea eurytis*

**Type Locality:** "Antigua"; defined as "Haiti?, Puerto Rico(?)" by Silberglied *et al.* (1979), Psyche 86(2/3): 228.

**Types:** Holotype may be in BMNH or MNHP.

Genus *Siproeta* Hübner, [1823]

Samml. exot. Schmett. 2: pl. [48]. Type-species: *Siproeta trayja* Hübner, [1823], Samml. exot. Schmett. 2: pl. [48], figs. 1, 2, by monotypy.

= *Victorina* Blanchard, 1840

In: Castelnau, Hist. Nat. Ins. 3: 447. Type-species: *Papilio stelenes* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 39, by original designation.

= *Amphirene* E. Doubleday, 1845

List Spec. Lepid. Brit. Mus. 1: 86. Type-species: *Vanessa epaphus* Latreille, 1813, in: Humboldt and Bonpland, Voy. Rég. Équinox, Part 2 (Observ. Zool.) 2(9): 74-75, no. 119, pl. 35, figs. 3, 4, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 110.

= ♀ *Amphirene* Boisduval, 1870

Consid. Lépid. Guat.: 43. Type-species: *Vanessa epaphus* Latreille, 1813, in: Humboldt and Bonpland, Voy. Rég. Équinox, Part 2 (Observ. Zool.) 2(9): 74-75, no. 119, pl. 35, figs. 3, 4, by monotypy. Preoccupied by *Amphirene* E. Doubleday, 1845, List Spec. Lepid. Brit. Mus. 1: 86.

= ♀ *Phanaea* Capronnier, 1881

Annls. Soc. Entomol. Belg. 25: 101. Type-species: *Papilio stelenes* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 465, no. 39, by monotypy. A junior objective synonym of *Victorina*.

\*691. *Siproeta stelenes* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 465, no. 39; cited Petiver (1703), Gazophylacium: pl. 13, fig. 1 (as "*Papilio Jamaicansis*"), Merian (1705), Ins. Surinam.: pl. 2 (in error, actually *Philaethria dido* Linnaeus (1763), Cent. Ins. Rar.: 25, no. 74), and Sloane (1725), Voy. Isl. Mad. Barb. Nieves, St. Christ. Jam. 2: 217, pl. 239, figs. 9, 10; figured by Clerck [1764], Icon. Ins. 2: pl. 35, fig. 2 ♂ D&V.

**Original Combination:** *P[apilio]*. *E[ques Achivus]* *Stelenes*

**Type Locality:** "America"; defined as "Jamaica" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 458, and R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 238.

**Types:** Lectotype in BMNH, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 382.

= *jason* (Linnaeus, 1758)

Syst. Nat. (ed. 10) 1: 485-486, no. 171.

**Original Combination:** *P[apilio]*. *B[arbarus]*. *Jason*

**Type Locality:** "Indiis"

**Types:** Location of type(s) not known.

As indicated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 339, and Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 252, this name may best be treated as a *nomen dubium*. Its position in this synonymy is tentative.



- = *lavinia* (Fabricius, 1775)  
Syst. Entomol.: 450, no. 32.  
**Original Combination:** *P[apilio]. E[ques]. A[chivus]. Lavinia*  
**Type Locality:** "America. v. Rohr"; defined as "St. Croix, Virgin I. W. I." by R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 238. [U. S. Virgin Islands]  
**Types:** Location of type(s) not known.
- = *†dotata* (Fabricius, 1938)  
*In:* Bryk, Syst. Glossat.: 15, no. 7; cited *Papilio lavinia* Fabricius, 1793, Entomol. Syst. 3(1): 22, no. 64, which is the same as *Papilio lavinia* Fabricius, 1775, above.  
**Original Combination:** *U[rania]. Dotata*  
Proposed as a replacement name for *Papilio lavinia*, and a junior objective synonym of that name.
- a. **Siproeta steneles biplagiata** (Fruhstorfer, 1907)  
Stettiner Entomol. Ztg. 68(1): 13-14.  
**Original Combination:** [*Victorina*] *steneles biplagiata*  
**Type Locality:** "Texas, Honduras, S. Mexico"; lectotype from "San Pedro Sula, Honduras."  
**Types:** Lectotype in BMNH, designated by R. Fox and A. Forbes (1971), Ann. Carnegie Mus. 43(8): 236.
- = *pallida* (Fruhstorfer, 1909)  
Entomol. Z. 23(1): 228, fig. 3.  
**Original Combination:** *Victorina steneles pallida*  
Fruhstorfer adopted *Victorina steneles biplagiata* forma *pallida* Fruhstorfer, 1907, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
= *†"pallida"* (Fruhstorfer, 1907)  
Stettiner Entomol. Ztg. 68(1): 14.  
**Original Combination:** [*Victorina steneles biplagiata*] forma *pallida*  
**Type Locality:** "S. Mexico"  
**Types:** "Holotype" (#Rh17074) in BMNH.
- = *insularis* (W. Holland, 1916)  
Ann. Carnegie Mus. 10: 493-494, no. 16.  
**Original Combination:** *Victorina steneles* var. *insularis*  
**Type Locality:** "Isle of Pines, Cuba" from the title of the paper; lectotype from "Nueva Gerona/Isle of Pines."  
**Types:** Lectotype (#654) in CMNH, designated by F. Brown (1971), *in:* R. Fox and A. Forbes, Ann. Carnegie Mus. 43(8): 237.  
Smith *et al.* (1994), Butts. W. Ind. & Fla.: 89, determined this synonymy.
- = *†"stygiata"* (Schaus, 1913)  
Proc. Zool. Soc. Lond. 1913(3): 348, pl. 51, fig. 6 ♂ D&V ("holotype").  
**Original Combination:** *Victorina steneles* ab. *stygiata*  
**Type Locality:** "Avangarez" [Costa Rica]  
**Types:** Holotype in USNM.  
*†"claro"* Scott, 1986  
Butts. N. Am.: 274, no. 176.  
**Original Combination:** [*Siproeta steneles*] form *claro*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.  
*†"oscuro"* Scott, 1986  
Butts. N. Am.: 274, no. 176.  
**Original Combination:** [*Siproeta steneles*] form *oscuro*  
Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.
692. **Siproeta epaphus** (Latreille, 1813)  
a. **Siproeta epaphus epaphus** (Latreille, 1813)  
*In:* Humboldt and Bonpland, Voy. Rég. Équinox, Part 2 (Obs. Zool.) 2(9): 74-75, no. 119, pl. 35, figs. 3 ♂ D, 4 ♂ V.  
**Original Combination:** *Vanessa Epaphus*  
**Type Locality:** Not stated, suggested to be "Peru" by Lamas *et al.* (2004), Atl. Neotrop. Lepid. Chcklst. Part 4A: 252.  
**Types:** Holotype in MNHP.  
Recorded from Dona Ana County, New Mexico by S. Cary and R. Holland (1994), J. Res. Lepid. 31(1-2): 74.  
*†"ficianus"* (L. Martin, Talbot & Jullien, 1923)  
Fruhstorfer Colln.: 52.  
**Original Combination:** *Amphirene epaphus ficianus*  
Proposed without a description or indication; a *nomen nudum*.

#### Tribe Junoniini Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 457, 554, 557. Type-genus: *Junonia* Hübner, [1819], Verz. bekannt. Schmett. (3): 34.

#### Genus Junonia Hübner, [1819]

Verz. bekannt. Schmett. (3): 34. Type-species: *Papilio lavinia* Cramer, 1775, Uitl. Kapellen 1(2): 32, pl. 21, figs. C, D; (8): 153 (index) (= *Papilio evarete* Cramer, 1779, Uitl. Kapellen 3(17): 18, pl. 203, figs. C, D; (24): 174 (index); homonym), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 43. Wahlberg *et al.* (2005), Biol. J. Linn. Soc. 86(2): 236, 239, 250, determined that *Junonia* and

*Precis* Hübner, [1819], are distinct genus-level taxa. The following arrangement of species-level taxa is preliminary, and largely follows Lamas *et al.* (2004), Atl. Neotrop. Lepid. Checkl. Part 4A: 251, and Neild (*in prep.*), Butts. Venez. 2.

- = *Alcyoneis* Hübner, [1819]  
Verz. bekannt. Schmett. (3): 34-35. Type-species: *Alcyoneis almanae* Hübner, [1819], Verz. bekannt. Schmett. (3): 35, no. 293 (= *Papilio almana* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 472, no. 89; synonym), by designation of Hemming (1933), Entomol. 66(9) [844]: 197.
- = *Arestia* Billberg, 1820  
Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio laomedea* Linnaeus, 1767, Syst. Nat. (ed. 12) 1(2): 772, no. 176 (= *Papilio atlites* Linnaeus, 1763, *in*: Johansson, Cent. Ins. Rar: 24-25, no. 72; synonym), by designation of Scudder (1875) Proc. Am. Acad. Arts Sci., Boston 10(2): 117, no. 113.
- = *Kamilla* Collins & Larsen, 1991  
*In*: Larsen, Butts. Kenya, Nat. Hist.: 444. Type-species: *Papilio cymodoce* Cramer, 1777, Uitl. Kapellen 2(9): 5, pl. 99, figs. G, H; (16): 148 (index), by original designation.

693. ***Junonia coenia* Hübner, [1822]**

a. ***Junonia coenia coenia* Hübner, [1822]**

Samml. exot. Schmett. 2: pl. [32], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Junonia Coenia*

**Type Locality:** Not stated; listed as "Amer. Sept. et Centr., Venezuela" by W. F. Kirby (1908), *in*: P. Wytman, Facsimile ed. Hübner Samml. exot. Schmett. 3 (addit. notes): 24; suggested to be "Cuba" by W. Comstock (1944), Sci. Surv. Puerto Rico & Virgin Is. 12(4): 453, Klots (1951), Field Guide Butts. N. Am.: 109, and Tilden (1971), J. Res. Lepid. 9(2): 104; suggested to be "United States" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 175.

**Types:** Type(s) probably lost.

= *bergi* Avinoff, 1926

Ann. Carnegie Mus. 16(3/4): 366, pl. 32, figs. 7 ♂ D&V (holotype), 8 ♀ D&V.

**Original Combination:** *Junonia coenia bergi* subsp. nov.

**Type Locality:** "St. George, Bermudas"

**Types:** Holotype (#7418) in CMNH.

= *antirrhini* (Fabricius, 1938)

*In*: Bryk, Syst. Glossat.: 94, no. 26; cited *Papilio orythia* Fabricius, 1793, Entomol. Syst. 3(1): 91, no. 284, and *sensu* J. E. Smith (1797), *in*: Smith and Abbot, Ins. Georgia 1: pl. 8.

**Original Combination:** *C[ynthia]. Antirrhini*

Proposed as a replacement name for *coenia* based on the name of a foodplant; a junior objective synonym of *coenia*.

= *"weidenhameri"* Polacek, 1925

Maryland Acad. Sci. Bull. 6(3): 10-11, fig. A ♂ D, B ♂ V ("holotype").

**Original Combination:** *Junonia Coenia* [ab.] *Weidenhameri*

**Type Locality:** "St. Peter's Cemetery in Baltimore" [Baltimore County, Maryland]

**Types:** Location of "holotype" not known.

This taxon was redescribed by Polacek (1926), Bol. Soc. Colomb. Cienc. Nat. 15(85): 41-43, figs. A ♂ D, B ♂ V.

= *"rubrosuffusa"* (W. D. Field, 1936)

J. Entomol. & Zool. 28(2): 23-24.

**Original combination:** *Precis coena* [sic!] tr. f. *rubrosuffusa*

**Type Locality:** "Lawrence, Kansas" [Douglas County]

**Types:** "Holotype" in USNM.

= *"rosa"* (Whittaker & D. Stallings, 1944)

Entomol. News 55(4): 91.

**Original Combination:** *Precis coenia* f. *hiem. rosa*

**Type Locality:** "Caldwell, Kansas" [Sumner County]

**Types:** "Holotype" in USNM.

*"quinatzin"* (Arias, 1968)

Exp. cient. esp. siglo XVIII. Exp. Bot. Nueva España: 395, pl. [106], figs. 5-6.

**Original Combination:** *Papilio Quinatzin*

Name proposed without a description or indication; a *nomen nudum*.

b. ***Junonia coenia grisea* Austin & J. Emmel, 1998**

Syst. W. N. Am. Butts. (42): 512, figs. 51 ♂ D, 52 ♂ V (holotype); 53 ♀ D, 54 ♀ V.

**Original Combination:** *Junonia coenia grisea*

**Type Locality:** "California: Los Angeles County; South Pasadena, elevation 198 m"

**Types:** Holotype in LACM.

= *"schraderi"* Gunder, 1925

Entomol. News 36(7): 199, no. 11, pl. 5, fig. 11 ♂ D ("holotype").

**Original Combination:** *Junonia coenia* ab. ♀ *schraderi*

**Type Locality:** "Los Angeles, California" [Los Angeles County]

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 43, figs. 10 ♀ D.

= *"wilhelmi"* Gunder, 1927

Entomol. News 38(5): 134-135, no. 4, pl. 2, fig. 4 ♂ D ("holotype").

**Original Combination:** *Junonia coenia wilhelmi* ♂ nov. tr. form

**Type Locality:** "Los Angeles, California" [Los Angeles County]

**Types:** "Holotype" in AMNH.

- \*694. **Junonia evarete** (Cramer, 1779)  
 Uidl. Kapellen 3(17): 18, pl. 203, figs. C ♂ D, D ♂ V; (24): 174 (index).  
**Original Combination:** *Pap[ilio]. Nymph[alis]. Gemm[ata]. Evarete*  
**Type Locality:** "Surinamen" "Suriname"  
**Types:** Type(s) probably lost.  
 = *lavinia* (Cramer, 1775)  
 Uidl. Kapellen 1(2): 32, pl. 21, figs. C ♂ D, D ♂ V; (8): 153 (index).  
**Original Combination:** *Pap[ilio] N[ymp]halis] G[em]matus]. Lavinia*  
**Type Locality:** "Suriname" "Suriname"  
**Types:** Type(s) probably lost.  
 Preoccupied by *Papilio lavinia* Fabricius, 1775, Syst. Entomol.: 450, no. 32.  
 = *cortes* (Herbst, 1796)  
 In: Jablonsky, Natursyst. Ins., Schmett. 8: 260, no. 11, pl. 225, figs. 3, 4; cited *Papilio lavinia* Cramer, 1775, Uidl. Kapellen 1(2): pl. 21, figs. C, D.  
**Original Combination:** *Papilio Cortes*  
 Proposed to replace *Papilio lavinia* Cramer, 1775, Uidl. Kapellen 1(2): 32, pl. 21, figs. C ♂ D, D ♂ V (Code Article 60.3).  
 = *esra* (Fabricius, 1798)  
 Entomol. Syst. 3(suppl.): 425.  
**Original Combination:** *P[apilio]. N[ymp]halis] Esra*  
**Type locality:** "Cajennae, Dom. Richard"  
**Types:** Location of types not known.  
 = *divaricata* C. Felder & R. Felder, 1867  
 Reise Novara Zool. (3): 401, no. 598.  
**Original Combination:** *Junonia Divaricata*  
**Type Locality:** "Surinam...Cuba"  
**Types:** Syntypes in BMNH.  
 = *arenosa* W. Forbes, [1929]  
 J. N. Y. Entomol. Soc. 36(4): 311.  
**Original Combination:** *J[unonia]. I[avinia]. arenosa*  
**Type Locality:** "Zandarij, Boven Para District, Surinam"  
**Types:** Holotype (#889) in CUIC.  
 a. **Junonia evarete zonalis** C. Felder & R. Felder, 1867  
 Reise Novara Zool. (3): 399-400, no. 593; cited *Junonia lavinia* var. *occidentalis* C. Felder & R. Felder, 1862, Wien. entomol. Monatschr. 6(4): 110 (part).  
**Original Combination:** *Junonia Zonalis*  
**Type Locality:** "Nova Grenada: Bogotá...Cuba...Porto-Rico"  
**Types:** Syntypes in BMNH.  
 Proposed for *Junonia lavinia* var. *occidentalis* C. Felder & R. Felder, 1862 (in part).  
 = *pallens* C. Felder & R. Felder, 1867  
 Reise Novara Zool. (3): 401, no. 597.  
**Original Combination:** *Junonia Pallens*  
**Type Locality:** "Venezuela"  
**Types:** Syntypes in BMNH.  
 b. **Junonia evarete nigrosuffusa** W. Barnes & McDunnough, 1916  
 Can. Entomol. 48(7): 222.  
**Original Combination:** *Junonia coenia nigrosuffusa*  
**Type Locality:** "Palmerlee, Ariz....Huachuca Mts., Ariz....Babaquivera [sic] Mts., Pima Co., Arizona" [Baboquivari Mts.]  
**Types:** Syntypes in USNM.  
 = *melanina* A. Hall, 1919  
 Entomol. 52[676]: 196.  
**Original Combination:** *Junonia lavinia* var. *melanina*  
**Type Locality:** "Jalisco, W. Mexico, 5000 ft."  
**Types:** Holotype in BMNH.  
 695. **Junonia genoveva** (Cramer, 1780)  
 Uidl. Kapellen 4(25): 4, pl. 290, figs. E ♂ D, F ♂ V; (34): 249 (index).  
**Original Combination:** *Pap[ilio]. Nymph[alis]. Phaler[ata] Genoveva*  
**Type Locality:** "Surinamsche" "Suriname"; suggested to be "northeastern South America" by F. Brown and Heineman (1972), Jamaica Butts.: 179-180; considered to be "West Indian" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 176.  
**Types:** Possible Syntype(s) in BMNH.

Genus **Hypolimnas** Hübner, [1819]

- Verz. bekannt. Schmett. (3): 45. Type-species: *Papilio pipleis* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 476, no. 108 (= *Papilio pandarus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 461, no. 17; synonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 194, no. 554.  
 = *Esoptria* Hübner, [1819]



Verz. bekannt. Schmett. (3): 45-46. Type-species: *Papilio bolina* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 479, no. 124, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 168, no. 406.

= ‡*Diadema* Boisduval, 1832

In: d'Urville, Voy. Astrolabe 1 (Lépid): 135. Type-species: *Papilio bolina* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 479, no. 124, by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 451. Preoccupied by *Diadema* G. Gray, 1825, Ann. Phil. 26: 426 and a junior objective synonym of *Esoptria*.

= *Euralia* Westwood, 1850

In: Gen. diurn. Lepid. 2(35): 281. Type-species: *Papilio dubius* Palisot de Beauvois, 1830, Ins. Afr. Amér.: 238, pl. 6, figs. A, Aa (= *Diadema anthedon* E. Doubleday, 1845, Ann. Mag. Nat. Hist. [1]16(104): 181; homonym), by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 173, no. 437.

= *Eucalia* C. Felder, 1861

Nova Acta Acad. Caes. Leop.-Carol. germ. Nat. Cur. 28(3): 25, under *Diadema*, no. 57. Type-species: *Diadema anthedon* E. Doubleday, 1845, Ann. Mag. Nat. Hist. [1]16(104): 181, by designation of Hemming (1939), Proc. R. Entomol. Soc. Lond. (B)8(7): 134.

696. **Hypolimnias misippus** (Linnaeus, 1764)

Mus. Lud. Ulr. [1]: 264, no. 83.

**Original Combination:** *P[apilio]. D[anaus]. H[estivus]. Misippus*

**Type Locality:** "America"; suggested to be "Java" by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 350. [Indonesia]

**Types:** Lectotype in LSUK, designated by Honey and Scoble (2001), Zool. J. Linn. Soc. 132(3): 350.

The entirely Old World synonymy for this species was provided by Lamas *et al.* (2004), Atlas of Neotrop. Lepid. Chkfst: Part 4A: 251.

Tribe **Melitaeini** Newman, [1870]

Ill. Nat. Hist. Brit. Butts: 39 (as "Melitaeidae"). Type-genus: *Melitaea* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 284.

Subtribe **Euphydryina** Higgins, 1976

Ent. Gaz. 29(3): 109 (as "Euphadryini"). Type-genus: *Euphydryas* Scudder, 1872, 4th Ann. Rept. Peabody Acad. Sci. (1871): 48.

Genus **Euphydryas** Scudder, 1872

4th Ann. Rept. Peabody Acad. Sci. (1871): 48. Type-species: *Papilio phaeton* Drury, 1773, Ill. Nat. Hist. 1: 42-43, pl. 21, figs. 3, 4; 2: index, by original designation. I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Generic Names in Zoology* as name no. 700.

Subgenus **Hypodryas** Higgins, 1978

Entomol. Gaz. 29(3): 110, figs. 1-3. Type-species: *Papilio maturna* Linnaeus, 1761, Fauna Svecica (ed. 2): 280, by original designation.

= ‡*Lemonias* Hübner, [1806]

Tentamen: [1]. Type-species: *Papilio maturna* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 480, no. 136, by monotypy. The Tentamen was suppressed by I.C.Z.N. *Opinion* 97. I.C.Z.N. *Opinion* 278 placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 79.

697. **Euphydryas gillettii** (W. Barnes, 1897)

Can. Entomol. 29(2): 40-41.

**Original Combination:** *Melitaea Gillettii*

**Type Locality:** "Yellowstone Park, Wyoming"

**Types:** Lectotype in USNM, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12, ♂ D&V, as "type." A "paratype" was figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 12 ♀ D (actually a ♂).

= *glacialis* (Skinner, 1921)

Entomol. News 32(3): 89.

**Original Combination:** *Melitaea glacialis*

**Type Locality:** "Two Medicine Lake, Glacier National Park, Montana" [Glacier County]

**Types:** Syntype (#7022) in ANSP.

= ‡"herri" Gunder, 1929

Pan-Pac. Entomol. 6(1): 8.

**Original Combination:** *Euphydryas gilletti* tr. f. *herri*

**Type Locality:** "Martina, near Stark, Missoula County, Montana"

**Types:** "Holotype" in AMNH.

Subgenus **Euphydryas** Scudder, 1872

= *Occidryas* Higgins, 1978

Entomol. Gaz. 29(3): 112, figs. 6-12. Type-species: *Melitaea anicia* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1) (12): pl. 23, fig. 2; (21): 179, no. 6, by original designation.

698. **Euphydryas editha** (Boisduval, 1852)

editha group Bauer, 1975

In: Howe, Butts. N. Am.: 189.

- a. **Euphydryas editha taylori** (W. H. Edwards, 1888)  
Can. Entomol. 20(5): 82-83.  
**Original Combination:** *M[elitaea]. Taylori*  
**Type Locality:** "Victoria" implied from the text; lectotype from "Vanc. Isd." [Vancouver Island, British Columbia]  
**Types:** Lectotype in CMNH, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 11 ♂ D&V, as "type"; figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 376, fig. 6 ♂ D&V.  
= ♀ "victoriae" Gunder, 1926  
Entomol. News 37(1): 4-5, no. 6, pl. 1, fig. 6 ♀ D ("holotype").  
**Original Combination:** *Euphydryas taylori* ab. ♀ *victoriae*  
**Type Locality:** "Victoria, British Columbia, Canada" [Vancouver Island]  
**Types:** "Holotype" in AMNH.  
= ♀ "barnesi" Gunder, 1928  
Can. Entomol. 60(7): 164, pl. A, figs. 8 ♂ D, 8a ♂ V ("holotype").  
**Original Combination:** *Euphydryas taylori* tr. f. *barnesi*  
**Type Locality:** "Victoria, B. C." [Vancouver Island, British Columbia]  
**Types:** "Holotype" in USNM.
- b. **Euphydryas editha editha** (Boisduval, 1852)  
Annls. Soc. Entomol. Fr. (2) 10(2): 304-305, no. 47; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 259, figs. 2171 ♂ D&V, 2172 ♀ D&V.  
**Original Combination:** *Melitaea Editha*  
**Type Locality:** "les montagnes"; refined to "dans les bois montueux" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 19, no. 48; suggested to be "foothills S edge of San Joaquin Valley, California" by Bauer (1975), in: Howe, Butts. N. Am.: 190; redefined as "Twin Peaks, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 17.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 18, figs. 96 ♂ D, 97 ♂ V.  
= *bayensis* Sternitzky, 1937  
Can. Entomol. 69(9): 204-205.  
**Original Combination:** *Euphydryas editha* var. *bayensis*  
**Type Locality:** "Hillsborough, San Mateo Co., Calif." [California]  
**Types:** Syntypes in CAS.  
= ♀ "sternitzkyi" Gunder, 1929  
Pan-Pac. Entomol. 6(1): 6-7.  
**Original Combination:** *Euphydryas editha* race *baroni* tr. f. *sternitzkyi*  
**Type Locality:** "Hillsboro, near San Mateo, San Mateo County, California"  
**Types:** "Holotype" in AMNH.
- c. **Euphydryas editha insularis** T. Emmel & J. Emmel, 1974  
J. Res. Lepid. 13(2): 131-134, fig. 1a ♂ D (holotype), 1b ♀ D, 1c ♂ V.  
**Original Combination:** *Euphydryas editha insularis*  
**Type Locality:** "California, Santa Barbara County, Santa Rosa Island"  
**Types:** Holotype in LACM.
- d. **Euphydryas editha augustina** (W. G. Wright, 1905)  
Butts. W. Coast: 54, no. 170; 154, no. 170, pl. 19, figs. 170 ♂ D, 170a ♂ V (holotype).  
**Original Combination:** [*Melitaea Augusta* var.] *Augustina*; *Melitaea Augusta* n. v.  
**Type Locality:** "Southern California" "S. B. Mts." [San Bernardino Mountains, San Bernardino-Riverside counties]  
**Types:** Holotype (#4295) in CAS.
- e. **Euphydryas editha quino** (Behr, 1863)  
Proc. Calif. Acad. Sci. 3(1) ([sig.]: 6): 90, no. 3.  
**Original Combination:** *M[elitaea]. Quino*  
**Type Locality:** "California" implied from the title of the paper, "near San Diego" from the description; neotype from "San Diego, San Diego Co., California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 101, figs. 40 ♂ D, 41 ♂ V.  
= *augusta* (W. H. Edwards, 1890)  
Can. Entomol. 22(2): 21-23.  
**Original Combination:** *Melitaea Augusta*  
**Type Locality:** "vicinity of San Bernardino" [San Bernardino County, California]  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 371, fig. 4 ♂ D&V.  
= *wrighti* Gunder, 1929  
Pan-Pac. Entomol. 6(1): 5, pl. 9 ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Euphydryas editha* race *wrighti*  
**Type Locality:** "San Diego, California" [San Diego County]  
**Types:** Holotype in AMNH.  
= ♀ "fieldi" Gunder, 1924  
Entomol. News 35(5): 155, pl. 2, fig. E ♂ D ("holotype").  
**Original Combination:** *Euphydryas editha* ab. ♂ *fieldi*

**Type Locality:** "San Diego, San Diego County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 34, fig. 16 ♂ D.

= ♀ "thornei" Gunder, 1934

Can. Entomol. 66(6): 129.

**Original Combination:** *Euphydryas editha wrighti* tr. f. *thornei*

**Type Locality:** "Chula Vista, San Diego, California" [San Diego County]

**Types:** "Holotype" in AMNH.

= ♀ "rubyae" Hower, 1935

Pan-Pac. Entomol. 11(2): 82.

**Original Combination:** *Euphydryas quino rubyae* new tr. f.

**Type Locality:** "Dana Point, Orange County, California"

**Types:** "Holotype" in Hower collection, possibly in LACM or SDMC.

nubigena group Bauer, 1975

In: Howe, Butts. N. Am.: 193.

**f. *Euphydryas editha ehrlichi* Baughman & Murphy, 1998**

Syst. W. N. Am. Butts. (29): 398, figs. ♂ D (holotype), 2 ♀ D.

**Original Combination:** *Euphydryas editha ehrlichi*

**Type Locality:** "California, San Bernardino Co.; Ord Mts. at NW end of San Bernardino Mountains, W of Victorville, 4400-4520 feet"

**Types:** Holotype in LACM.

**g. *Euphydryas editha nubigena* (Behr, 1863)**

Proc. Calif. Acad. Sci. 3(1) ([sig.] 6): 91, no. 5.

**Original Combination:** *M[elitaea]. nubigena*

**Type Locality:** "California" implied from the title of the paper, "at the headwaters of the Tuolumne River and beyond, up to elevations of 11,500 feet" from the description; neotype from "west end of Dana Plateau, 11,000-11,400' elevation, above Tioga Pass, Mono County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 101, figs. 43 ♂ D, 44 ♂ V.

= ♀ "tiogaensis" Gunder, 1929

Pan-Pac. Entomol. 6(1): 6.

**Original Combination:** *Euphydryas editha* race *nubigena* tr. f. *tiogaensis*

**Type Locality:** "Tioga Pass in Yosemite National Park, California"

**Types:** "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 35, fig. 6 ♀ D.

This name was misspelled "tiogoensis" in the systematic list on plate 16; an incorrect original spelling.

= ♀ "boharti" Gunder, 1929

Pan-Pac. Entomol. 6(1): 6.

**Original Combination:** *Euphydryas editha* race *nubigena* tr. f. *boharti*

**Type Locality:** "Tuolumne Meadows, Yosemite National Park, California"

**Types:** "Holotype" in AMNH.

**h. *Euphydryas editha tahoensis* Austin & Murphy, 1998**

Syst. W. N. Am. Butts. (30): 408-409, figs. 9 ♂ D, 11 ♂ V (holotype); 10 ♀ D, 12 ♀ V.

**Original Combination:** *Euphydryas editha tahoensis*

**Type Locality:** "Nevada: Washoe County; Carson Range, Tahoe Meadows, 2590 m, T17N R18E S36 on USGS Mt. Rose, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

**i. *Euphydryas editha aurilacus* Gunder, 1928**

Pan-Pac. Entomol. 5(2): 49, pl. 2, fig. B ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Euphydryas aurilacus*

**Type Locality:** "near Gold Lake Camp, Gold Lake, Sierra County, California"

**Types:** Holotype in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 10 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 57, fig. 28 ♂ D (as "paratype").

= ♀ "foxi" Gunder, 1924

Entomol. News 35(5): 155, pl. 2, fig. D ♂ D.

**Original Combination:** *Euphydryas rubicunda* ab. ♂ *foxi*

**Type Locality:** "Gold Lake, Sierra County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 34, fig. 17 ♂ D.

= ♀ "albiradiata" Gunder, 1926

Entomol. News 37(1): 3-4, no. 4, pl. 1, fig. 4 ♂ D ("holotype").

**Original Combination:** *Euphydryas rubicunda* ab. ♂ *albiradiata*

**Type Locality:** "Loyalton, Sierra County, California"

**Types:** "Holotype" in AMNH.

**j. *Euphydryas editha lawrencei* Gunder, 1931**

Bull. South. Calif. Acad. Sci. 30(2): 47.

**Original Combination:** *Euphydryas editha* race *lawrencei*

**Type Locality:** "Near timber line on trail between Diamond Lake (Camp) and summit of Mt. Thielsen (9000 ft.), Douglas



Co., Oregon"

**Types:** Holotype in AMNH.

= *remingtoni* Burdick, 1959

Lepid. News 12(5/6): 168-169.

**Original Combination:** *Euphydryas editha remingtoni*

**Type Locality:** "Mt. Thielsen [sic!], Douglas Co., Oregon" [Mt. Thielsen]

**Types:** Holotype in PMNH.

= ♀ "thielsenensis" Gunder, 1931

Bull. South. Calif. Acad. Sci. 30(2): 48.

**Original Combination:** *Euphydryas editha* race *lawrencei* tr. f. *thielsenensis*

**Type Locality:** "Timber line, on Mt. Thielsen, Douglas Co., Oregon"

**Types:** "Holotype" in AMNH.

= ♀ "diamondensis" Gunder, 1931

Bull. South. Calif. Acad. Sci. 30(2): 48.

**Original Combination:** *Euphydryas editha* race *lawrencei* tr. f. *diamondensis*

**Type Locality:** "Timber line, on Mt. Thielsen, Douglas Co., Oregon"

**Types:** "Holotype" in AMNH.

k. *Euphydryas editha colonia* (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 180; 158, no. 180, pl. 20, figs. 180 ♂ D, 180a ♂ V (lectotype), 180b.

**Original Combination:** [*Melitaea*] *Colonia*; *Melitaea Colonia* n. s.

**Type Locality:** "Northern Oregon" "Mt. Hood, Oregon" [Hood River-Clackamas counties]

**Types:** Lectotype (#4300) in CAS, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 11 ♂ D&V, as "type."

*baroni* group Bauer, 1975

In: Howe, Butts. N. Am.: 190.

l. *Euphydryas editha rubicunda* (Hy. Edwards, 1881)

Papilio 1(4): 52.

**Original Combination:** *Melitaea rubicunda* n. var. [of *quino*]

**Type Locality:** "Sierra Nevada...from 2500 feet to 7000 feet"; defined as "Mariposa Co., California" by Gunder (1929), Pan-Pac. Entomol. 6(1): 6, caption to fig. 15.

**Types:** Syntypes in AMNH; a "type" figured by W. Holland (1898), Butt. Book: pl. 16, fig. 10 ♂ D, and Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 10 ♂ D&V.

Murphy (1983), J. Res. Lepid. 21(3): 196, determined that the figures by W. H. Edwards (1888), Butts. N. Am. 3(5): pl. *Melitaea* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, are of *E. e. luestherae*, not *E. e. rubicunda*.

= ♀ "cottlei" Gunder, 1928

Can. Entomol. 60(7): 164, pl. A, figs. 7 ♂ D, 7a ♂ V ("holotype").

**Original Combination:** *Euphydryas rubicunda* tr. f. *cottlei*

**Type Locality:** "Lower Yosemite Valley, Calif." [Mariposa County]

**Types:** "Holotype" in AMNH.

m. *Euphydryas editha baroni* (W. H. Edwards, 1879)

Can. Entomol. 11(7): 129-131; figured by W. H. Edwards (1887), Butts. N. Am. 3(3): pl. *Melitaea* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Melitaea Baroni*

**Type Locality:** "Mendocino, Cal." [Mendocino County, California]

**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 374, fig. 5 ♂ D&V.

The original description is of the larva; the lectotype is an adult from this brood.

= ♀ "gunni" Gunder, 1929 (emended)

Pan-Pac. Entomol. 6(1): 6.

**Original Combination:** *Euphydryas editha* race *baroni* tr. f. *dunni*

**Type Locality:** "Mendocino County, California"

**Types:** "Holotype" (#34998) in AMNH.

This taxon was named for Norman R. Gunn, not "Dunn" as stated in the text. Murphy (1983), J. Res. Lepid. 21(3): 197-198, suggested that this name belongs either here or under *E. e. luestherae*.

n. *Euphydryas editha karinae* Baughman & Murphy, 1998

Syst. W. N. Am. Butts. (29): 399, figs. 3 ♂ D (holotype), 4 ♀ D.

**Original Combination:** *Euphydryas editha karinae*

**Type Locality:** "California, Mendocino Co., Monkey Rock, 1.5 mi. N of Hull Mountains, 6353 feet"

**Types:** Holotype in LACM.

o. *Euphydryas editha luestherae* Murphy & P. Ehrlich, 1980

J. Lepid. Soc. 34(3): 317-318.

**Original Combination:** *Euphydryas editha luestherae*

**Type Locality:** "California, Stanislaus Co., Del Puerto Canyon, 22 mi W of Patterson"

**Types:** Holotype in AMNH.

= ♀ "mirabilis" (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 184; 160, no. 184, pl. 20, figs. 184 ♂ D, 184a ♂ V ("holotype").

**Original Combination:** [*Melitaea Hoffmanni* var.] *Mirabilis*; *Melitaea Mirabilis* n. v.

**Type Locality:** "Lake County, California"

**Types:** "Holotype" (#4304) in CAS.

The text clearly indicates that this taxon was described as an individual variant.

- p. **Euphydryas editha monoensis** Gunder, 1928  
Pan-Pac. Entomol. 5(2): 49, pl. 2, fig. A ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Euphydryas monoensis*  
**Type Locality:** "Rush Creek (below Farmington's ranch), near Mono Lake, Mono Co., California"  
**Types:** Holotype in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 9 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 57, fig. 26 ♂ D (as "paratype").  
= *fridayi* Gunder, 1931  
Bull. South. Calif. Acad. Sci. 30(2): 47.  
**Original Combination:** *Euphydryas editha* race *fridayi*  
**Type Locality:** "Near auto road left between June and Silver Lakes, Mono Co., California"  
**Types:** Holotype in AMNH.  
= *rubrosuffusa* J. A. Comstock, 1926  
Bull. South. Calif. Acad. Sci. 25(1): 32; figured by J. A. Comstock (1927), Butts. Calif.: pl. 34, fig. 15 ♀ D ("holotype").  
**Original Combination:** *Euphydryas rubicunda* ab. *rubrosuffusa*  
**Type Locality:** "Mammoth, Mono Co., Calif." [California]  
**Types:** "Holotype" in LACM (Malcolm collection).
- q. **Euphydryas editha edithana** (Strand, 1915)  
Arch. Naturgesch. (A)80(11): 155.  
**Original Combination:** [*Lemonias rubicunda*] event. *edithana*  
**Type Locality:** "Lassen Co." "Klamath Co."; defined as "flats SE of Ash Creek, Ash Valley, 14 miles SE of Adin, 5,000' elevation" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (10): 123. [Lassen County, California]  
**Types:** Lectotype in DEI, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 10 ♂ D&V, as "type."
- r. **Euphydryas editha bingi** Baughman & Murphy, 1998  
Syst. W. N. Am. Butts. (29): 399-400, figs. 5 ♂ D (holotype), 6 ♀ V.  
**Original Combination:** *Euphydryas editha bingi*  
**Type Locality:** "California: Modoc Co., Warner Mts., Emerson Peak. Elevation 8200 ft."  
**Types:** Holotype in LACM.  
This name was unjustifiably emended to "bingorum" by Lamas (1999), Lepid. News 1999(2): 8.
- s. **Euphydryas editha mattooni** Austin & Murphy, 1998  
Syst. W. N. Am. Butts. (30): 411, figs. 29 ♂ D, 31 ♂ V (holotype); 30 ♀ D, 32 ♀ V.  
**Original Combination:** *Euphydryas editha mattooni*  
**Type Locality:** "California: Modoc County; Fort Bidwell to Adel Road at Gravel Pit Road, 9.4 road miles north of Fort Bidwell in Surprise Valley, 1707 m, T47N R23E S24"  
**Types:** Holotype in MGCL.  
This name was unjustifiably emended to "mattoonorum" by Lamas (1999), Lepid. News 1999(2): 8.
- t. **Euphydryas editha owyheensis** Austin & Murphy, 1998  
Syst. W. N. Am. Butts. (30): 410, figs. 25 ♂ D, 27 ♂ V (holotype); 26 ♀ D, 28 ♀ V.  
**Original Combination:** *Euphydryas editha owyheensis*  
**Type Locality:** "Nevada: Elko County; Owyhee River Valley, Wildhorse Crossing Campground, 1950 m, T44N R54E (unsectioned) on USGS Wild Horse, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- u. **Euphydryas editha lehmani** Gunder, 1929  
Pan-Pac. Entomol. 6(1): 7, pl. 12, ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Euphydryas editha* race *lehmani*  
**Type Locality:** "Lehman Caves Resort, Mount Wheeler, White Pine County, Nevada"  
**Types:** Holotype in AMNH.  
= *koreti* Murphy & P. Ehrlich, 1984  
J. Res. Lepid. 22(4): 257, 259, fig. 2 ♂ D (holotype), ♀ D.  
**Original Combination:** *Euphydryas editha koreti*  
**Type locality:** "Nevada, White Pine County, Ridge south of Bald Mtn."  
**Types:** Holotype in AMNH.  
The status of this taxon was discussed by Britten *et al.* (1995), J. Res. Lepid. 31(3/4): 278-286.  
= *caberna* Gunder, 1934  
Can. Entomol. 66(6): 129.  
**Original Combination:** *Euphydryas editha lehmani* tr. f. *caverna*  
**Type Locality:** "Mt. Wheeler, White Pine Co., Nevada"  
**Types:** "Holotype" in AMNH.
- v. **Euphydryas editha gunnisonensis** F. Brown, [1971]  
J. Res. Lepid. 9(1): 21-22, fig. 1 ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Euphydryas editha gunnisonensis*  
**Type Locality:** "Owl Creek Pass road 2 miles east of Colo. 550, near Ridgeway, Ouray County, Colorado, 7000 feet above sea level"  
**Types:** Holotype in AMNH.

- w. **Euphydryas editha alebarki** Ferris, [1971]  
J. Res. Lepid. 9(1): 17-20, fig. 1 ♂ D&V (holotype), ♀ D&V.  
**Original Combination:** *Euphydryas editha alebarki*  
**Type Locality:** "Medicine Bow N. F., about 10 miles S. W. of Encampment on Battle Lake Road, Sierra Madre mountains, 8600', Carbon Co., Wyoming"  
**Types:** Holotype in LACM.
- x. **Euphydryas editha montanus** McDunnough, 1928  
Can. Entomol. 60(10): 249.  
**Original Combination:** [*Euphydryas hutchinsi*] [varietal or high altitude race] *montanus*  
**Type Locality:** "upper slopes Mt. Washburn, Yellowstone National Park at about 10,000 ft. altitude" [Wyoming]  
**Types:** Holotype (#2877) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12 ♂ D&V.
- y. **Euphydryas editha hutchinsi** McDunnough, 1928  
Can. Entomol. 60(10): 248-249.  
**Original Combination:** *Euphydryas hutchinsi*  
**Type Locality:** "Milligan Canyon, Jefferson Co., Mont." [Montana]  
**Types:** Holotype (#2876) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 12 ♂ D&V.
- z. **Euphydryas editha beani** (Skinner, 1897)  
Can. Entomol. 29(6): 155.  
**Original Combination:** *Melitaea Beani*  
**Type Locality:** "high elevations near Laggan, Alberta"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.  
**Types:** Lectotype (#7016) in ANSP, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 11, ♂ D&V, as "type"; figured by W. Holland (1898), Butt. Book: pl. 18, fig. 13 ♂ D.  
= ♀ "blackmorei" Gunder, 1926  
Entomol. News 37(1): 2, no. 1, pl. 1, fig. 1 ♂ D ("holotype").  
**Original Combination:** *Euphydryas nubigena* var. *beani* ab. ♂ *blackmorei*  
**Type Locality:** "Mt. Cheam, British Columbia, Canada"  
**Types:** "Holotype" in AMNH.
699. **Euphydryas phaeton** (Drury, 1773)  
a. **Euphydryas phaeton phaeton** (Drury, 1773)  
Ill. Nat. Hist. 1: 42-43, pl. 21, figs. 3 ♀ D, 4 ♀ V (1770); 2: index (1773, name given).  
**Original Combination:** *Papilio Phaeton*  
**Type Locality:** "New York"  
**Types:** Type(s) lost.  
I.C.Z.N. *Opinion* 278 placed this name on the *Official List of Specific Names in Zoology* as name no. 104.  
= *phaetæna* (Hübner, [1819])  
Verz. bekannt. Schmett. (2): 228, no. 221; cited "Fabr. Syst. Pap. 167, Cram. 193. C. D."  
**Original Combination:** *Melitaea Phaetæna*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost.  
This name is probably a misspelling, but the references by Hübner make this unclear.  
= *schausi* (A. Clark, 1927)  
Proc. U. S. Nat. Mus. 71(2683): 1-2, pl. 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V; pl. 3, figs. 17-24; pl. 4, figs. 25-32; pl. 5, figs. 33-40.  
**Original Combination:** *Melitaea phaeton schausi*  
**Type Locality:** Not stated; syntypes from "Cabin John, Maryland." [Montgomery County]  
**Types:** Syntypes in USNM.  
= *borealis* F. Chermock & R. Chermock, 1940  
Bull. Penn. Acad. Sci. 14: 140.  
**Original Combination:** *Euphydryas phaeton borealis*  
**Type Locality:** "Lincoln, Maine" [Penobscot County]  
**Types:** Holotype in CNC.  
= ♀ "superba" (Strecker, 1878)  
Butts. & Moths N. Am., Comp. Syn. Cat.: 125, no. 249.  
**Original Combination:** [*Melitaea Phaeton*] ab. a. ♂ *Superba*  
**Type Locality:** "Long Island, New York"  
**Types:** "Holotype" in FMNH; figured by Gunder (1927), Entomol. News 38(9): pl. 6, upper half, fig. 5 ♂ D&V.  
= ♀ "phaetusa" (Hulst, 1881)  
Bull. Brooklyn Entomol. Soc. 3(9): 77, no. 6, pl., fig. no. 6 ♂ ("holotype").  
**Original Combination:** *Melitaea Phaetusa* aber. nov.  
**Type Locality:** "just outside the city line of Brooklyn, at east Williamsburgh" [Long Island, New York]  
**Types:** "Holotype" in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♂ D&V.  
= ♀ "streckeri" (Ellsworth, 1902)  
Entomol. News 13(4): 104.  
**Original Combination:** [*Melitaea phaeton* aberration or variety] *Melitaea streckeri*  
**Type Locality:** "Vestal, N. Y." [Broome County, New York]  
**Types:** Location of "holotype" not known.



Although this name was proposed as a binomen, this taxon was clearly defined as an individual variant in the text. It is herein considered unavailable.

= ♀ "magnifica" (A. Clark, 1927)

Proc. U. S. Nat. Mus. 71 (2683): 7, pl. 2, figs. 9 ♀ D, 10 ♀ V, 11 ♀ D ("type"), 12 ♀ V ("type").

**Original Combination:** *Melitaea phaeton* ab. *magnifica*

**Types:** "Cabin John, Maryland" [Montgomery County]

**Types:** "Holotype" in USNM.

b. *Euphydryas phaeton ozarkae* Masters, 1968

Entomol. News 79(4): 87-89, figs. 1 ♂ D, 2 ♂ V (holotype); 5 ♀ D, 6 ♀ V, 9 ♂ genitalia.

**Original Combination:** *Euphydryas phaeton ozarkae*

**Type Locality:** "Ridge north of Lynch Hollow, near county road F, Camden county, Missouri"

**Types:** Holotype in CMNH.

The status of this taxon relative to *E. p. phaeton* was examined by Vawter and Wright, 1986, J. Res. Lepid. 25(1): 25-29.

700. *Euphydryas chalcedona* (E. Doubleday, [1847])

The separation of *E. chalcedona*, *E. colon* and *E. anicia* follows J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (72): 828.

a. *Euphydryas chalcedona klotsi* dos Passos, 1938

Can. Entomol. 70(10): 199-200, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Euphydryas chalcedona klotsi*

**Type Locality:** "Roosevelt Lake, Ariz." [Gila County, Arizona]

**Types:** Holotype in AMNH.

= ♀ "venusta" Gunder, 1932

Pan-Pac. Entomol. 8(3): 127.

**Original Combination:** *Euphydryas anicia* race *hermosa* tr. f. *venusta*

**Type Locality:** "Cottonwood Canyon, above Roosevelt Camp, Roosevelt Dam, Arizona" [Gila County]

**Types:** "Holotype" in AMNH.

b. *Euphydryas chalcedona kingstonensis* T. Emmel & J. Emmel, 1973

J. Res. Lepid. 11(3): 141-143, fig. 1, upper, ♂ D (holotype), ♀ D.

**Original Combination:** *Euphydryas chalcedona kingstonensis*

**Type Locality:** "California, San Bernardino County, rocky canyon 3/4 air mile SE of Horse Thief Springs, 4400-4800', Kingston Range"

**Types:** Holotype in LACM.

This taxon could be considered a synonym of *E. c. klotsi* dos Passos, 1938.

c. *Euphydryas chalcedona corralensis* T. Emmel & J. Emmel, 1973

J. Res. Lepid. 11(3): 143-144, fig. 1, lower, ♂ D (holotype), ♀ D.

**Original Combination:** *Euphydryas chalcedona corralensis*

**Type Locality:** "California, San Bernardino County, Rock Corral"

**Types:** Holotype in LACM.

d. *Euphydryas chalcedona hennei* Scott, 1981

Papilio (n.s.) 1: 4.

**Original Combination:** *Euphydryas chalcedona hennei*

Scott adopted *Euphydryas chalcedona* race *quino* tr. f. *hennei* Gunder, 1932, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♀ "hennei" Gunder, 1932

Pan-Pac. Entomol. 8(3): 126.

**Original Combination:** *Euphydryas chalcedona* race *quino* tr. f. *hennei*

**Type Locality:** "Chino Canyon, Palm Springs, California" [Riverside County]

**Types:** "Holotype" in AMNH.

e. *Euphydryas chalcedona sierra* (W. G. Wright, 1905)

Butts. W. Coast: 54, no. 163; 152, no. 163, pl. 18, figs. 163 ♂ D (lectotype), 163b ♀ D, 163c ♂ V.

**Original Combination:** [*Melitaea*] *Sierra*; *Melitaea Sierra* n. s.

**Type Locality:** "Central California Mountains" "Sierra Nevada"

**Types:** Lectotype (#4293) in CAS, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 3 ♂ D&V, as "type."

= *irelandi* Gunder, 1929

Can. Entomol. 61(2): 44-45.

**Original Combination:** *Euphydryas irelandi*

**Type Locality:** "trail near Alta Peak, Sequoia Nat. Park, Calif." [Tulare County, California]

**Types:** Holotype in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 57, fig. 24 ♂ D.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (72): 828, treated this as a subspecies-level taxon.

= ♀ "magdalenae" Gunder, 1925

Entomol. News 36(7): 197, no. 8, pl. 5, fig. 8 ♂ D ("holotype").

**Original Combination:** *Euphydryas sierra* ab. ♂ *magdalenae*

**Type Locality:** "Glen Alpine Creek, El Dorado County, California"

**Types:** "Holotype" in AMNH.

= ♀ "umbrobasana" J. A. Comstock, 1925

Bull. South. Calif. Acad. Sci. 24(3): 31; figured by J. A. Comstock (1927), Butts. Calif.: pl. 35, fig. 5 ♂ D ("holotype").

**Original Combination:** *Euphydryas sierra* [ab.] *umbrobasana*

**Type Locality:** "Lake Tahoe region"

**Types:** "Holotype" in LACM.

- f. ***Euphydryas chalcedona olancha*** (W. G. Wright, 1905)  
Butts. W. Coast: 54, no. 160; 150, no. 160, pl. 18 figs. 160 ♂ D (lectotype), 160b ♀ D.  
**Original Combination:** [*Melitaea*] *Olancha*; *Melitaea Olancha* n. s.  
**Type Locality:** "Sierra Nevada" "Olancha Peak, Cal." [Tulare-Inyo counties, California]  
**Types:** Lectotype (#4291) in CAS, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 4 ♂ D&V, as "type."  
= ♀ "malcolmi" Gunder, 1927  
Entomol. News 38(5): 134, no. 3, pl. 2, fig. 3 ♀ D ("holotype").  
**Original Combination:** *Euphydryas chalcedona* race *olancha malcolmi* ♀ nov. tr. form  
**Type Locality:** "Casa Diablo, Mono County, California"  
**Types:** "Holotype" in AMNH.
- = ♀ "georgei" Gunder, 1928  
Entomol. News 39(10): 306, pl. 14, figs. D ♂ D ("holotype"), DD 3 ♀ ♀ D; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 4 ♂ D&V.  
**Original Combination:** *Euphydryas chalcedona olancha* forma *georgei*  
**Type Locality:** "Casa Diablo Hills, Mono County, California"  
**Types:** "Holotype" in AMNH.
- g. ***Euphydryas chalcedona macglashanii*** (Rivers, 1888)  
Proc. Calif. Acad. Sci. (2)1: 103-105.  
**Original Combination:** *M[elitaea]*. *Macglashanii*  
**Type Locality:** "neighborhood of Truckee...California" [Nevada County]  
**Types:** Location of type(s) not known; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♂ D&V.  
= ♀ "truckeensis" Gunder, 1928  
Entomol. News 39(10): 305-306, pl. 14, figs. B ♂ D ("holotype"), BB 3 ♀ ♀ D; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 3 ♂ D&V.  
**Original Combination:** *Euphydryas chalcedona* race *macglashanii* f. *truckeensis*  
**Type Locality:** "Truckee, Calif." [Nevada County, California]  
**Types:** "Holotype" in AMNH.
- = ♀ "hilli" Gunder, 1928  
Entomol. News 39(10): 306, pl. 14, fig. C ♀ D ("holotype").  
**Original Combination:** *Euphydryas chalcedona* race *macglashanii* forma transit. *hilli*  
**Type Locality:** "Auburn, California (near Truckee)" [Placer County]  
**Types:** "Holotype" in AMNH.
- h. ***Euphydryas chalcedona dwinnellei*** (Hy. Edwards, 1881)  
Papilio 1(4): 51-52.  
**Original Combination:** *Melitaea dwinnellei* n. var. [of *chalcedon*]  
**Type Locality:** "McCloud fishing station, Shasta Co., Cal." [California]  
**Types:** Lectotype in AMNH, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♂ D&V, as "type."
- i. ***Euphydryas chalcedona trinitina*** Baughman & Murphy, 1998  
Syst. W. N. Am. Butts. (29): 400, figs. 7 ♂ D (holotype), 8 ♀ D.  
**Original Combination:** *Euphydryas chalcedona trinitina*  
**Type Locality:** "California, Siskiyou Co.-Trinity Co. Line; on Sawtooth Ridge in the Trinity Alps, south of Caribou Lake, 7300-7840 feet"  
**Types:** Holotype in LACM.
- j. ***Euphydryas chalcedona chalcedona*** (E. Doubleday, [1847])  
In: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 1 [1847]; (21): 180, no. 5 (1848).  
**Original Combination:** *Melitaea Chalcedon*  
**Type Locality:** "Haiti" in error; corrected to "Californie" by Boisduval (1852), Annls. Soc. Entomol. Fr. (2)10(2): 303-304, no. 46; suggested to be "from the neighborhood of San Francisco" by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 85.  
**Types:** Lectotype in BMNH, designated by Gunder (1928), Pan-Pac. Entomol. 5(1): pl. 1 ♀ D&V, as "type"; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 1 ♀ D&V.  
= *cooperi* (Behr, 1863)  
Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 90, no. 2.  
**Original Combination:** *M[elitaea]*. *Cooperi*  
**Type Locality:** "California" implied from the title of the paper, "near Clear Lake...Mount Tamalpais" from the description; neotype from "Mount Tamalpais, Marin County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 101, figs. 37 ♂ D, 38 ♂ V.  
= ♀ "fusimacula" (W. Barnes, 1900)  
Can. Entomol. 32(2): 42.  
**Original Combination:** *Melitaea Chalcedon*, ab. *fusimacula*  
**Type Locality:** "California"  
**Types:** "Holotype" in USNM; figured by Gunder (1927), Entomol. News 38(9): pl. 7, upper half, fig. 4 ♀ D&V.  
= ♀ "mariana" (W. Barnes, 1900)



Can. Entomol. 32(2): 42, 43.

**Original Combination:** *Melitaea Chalcedon*, ab. *Mariana*

**Type Locality:** "California"

**Types:** "Holotype" in USNM; figured by Gunder (1927), Entomol. News 38(9): pl. 7, lower half, fig. 4 ♂ D&V.

= *grundeli* (Coolidge, 1908)

Can. Entomol. 40(11): 42.

**Original Combination:** *Lemonias chalcedona aberr. Grundeli*

**Type Locality:** "Cathran Gulch, Wright's Station, Calif." [Santa Clara County, California]

**Types:** Location of "holotype" not known.

= *lorquini* (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 76, pl. 259, fig. 2170 ♂ D&V ("holotype").

**Original Combination:** [*Melitaea Chalcedona*] ab. *Lorquini*

**Type Locality:** Not stated, "Californie" implied from the title of the paper.

**Types:** "Holotype" in USNM.

= *omniluteofuscus* Gunder, 1925

Entomol. News 36(7): 195-196, no. 4, pl. 5, fig. 4 ♀ V ("holotype").

**Original Combination:** *Euphydryas chalcedona* ab. ♀ *omniluteofuscus*

**Type Locality:** "Santa Monica, Los Angeles County, California"

**Types:** "Holotype" in AMNH.

= *hemiluteofuscus* Gunder, 1925

Entomol. News 36(7): 196, no. 5, pl. 5, fig. 5 ♂ V ("holotype").

**Original Combination:** *Euphydryas chalcedona* ab. ♂ *hemiluteofuscus*

**Type Locality:** "Altruas [*sic!*], Modoc County, California" [Alturas]

**Types:** "Holotype" in AMNH.

= *suprafusa* J. A. Comstock, 1926

Bull. South. Calif. Acad. Sci. 25(1): 30; figured by J. A. Comstock (1927), Butts. Calif.: pl. 32, fig. 9 ♀ D ("holotype").

**Original Combination:** *Euphydryas chalcedona* ab. *suprafusa*

**Type Locality:** "Los Angeles, Calif." [Los Angeles County, California]

**Types:** "Holotype" in LACM.

= *supranigrella* J. A. Comstock, 1926

Bull. South. Calif. Acad. Sci. 25(1): 30; figured by J. A. Comstock (1927), Butts. Calif.: pl. 32, fig. 8 ♂ D ("holotype").

**Original Combination:** *Euphydryas chalcedona* ab. *supranigrella*

**Type Locality:** "Mt. Wilson, Calif." [San Bernardino County, California]

**Types:** "Holotype" in LACM.

= *hemimelanica* J. A. Comstock, 1926

Bull. South. Calif. Acad. Sci. 25(1): 30, 31; figured by J. A. Comstock (1927), Butts. Calif.: pl. 32, fig. 11 ♂ D.

**Original Combination:** *Euphydryas chalcedona* ab. *hemimelanica*

**Type Locality:** "Sulphur Mountain Springs, Ventura County, Calif." [California]

**Types:** "Holotype" in LACM.

= *fusisecunda* J. A. Comstock, 1926

Bull. South. Calif. Acad. Sci. 25(1): 30, 31; figured by J. A. Comstock (1927), Butts. Calif.: pl. 32, fig. 12 ♂ D ("holotype").

**Original Combination:** *Euphydryas chalcedona* ab. *fusisecunda*

**Type Locality:** "Mt. Wilson, Calif." [San Bernardino County, California]

**Types:** "Holotype" in LACM.

701. *Euphydryas colon* (W. H. Edwards, 1881)

a. *Euphydryas colon sperryi* F. Chermock & R. Chermock, 1945

Proc. Penn. Acad. Sci. 19: 39.

**Original Combination:** *Euphydryas colon sperryi*

**Type Locality:** "Bartle, California" [Lumber Camp, Siskiyou County]

**Types:** Holotype probably in CMNH.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (72): 828, treated this as a subspecies-level taxon.

b. *Euphydryas colon colon* (W. H. Edwards, 1881)

Bull. Brooklyn Entomol. Soc. 3(9): 80, no. 8. Redescribed by W. H. Edwards (1881), Papilio 1(4): 43, 45-46, no. 3.

**Original Combination:** [*Melitaea*]. *Colon*

**Type Locality:** "Mount Hood, Oregon"; suggested to be "on the sides of the hills which line the banks of the Columbia river, in W. Washington Territory and Oregon, being especially common near Kalama" by Morrison (1883), Papilio 3(2): 43, and "the bluffs of the Columbia River, at Kalama, and other points in Western Washington Territory" by Tepper (1883), Bull. Brooklyn Entomol. Soc. 5(10): 81; defined as "Kalama, Cowlitz, County, Washington" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 361.

**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 363, fig. 1 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 16, fig. 5 ♂ D. Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂ D&V, figured a male "type," but that specimen was not identified as a syntype by F. Brown (1966).

= *perdiccas* (W. H. Edwards, 1881) (emended)

Bull. Brooklyn Entomol. Soc. 3(9): 80, no. 9. Redescribed by W. H. Edwards (1881), Papilio 1(4): 43, 44-45, no. 2.



**Original Combination:** *M[elitaea]. Perdiceas*

**Type Locality:** "Mt. Hood, Idaho"; suggested to be "the small prairies numerous near Puget Sound, Washington Territory. It was abundant near Tenino" by Morrison (1883), *Papilio* 3(2): 43, and "the little prairies, of which there are a good many in Western Washington Territory, near the coast...Tenino near prairies" by Tepper (1883), *Bull. Brooklyn Entomol. Soc.* 5(10): 81; subsequently defined as "Tenino, Thurston County, Washington" by F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 364. All of these Washington localities are in error, as there are no historic or modern records of *E. colon* from the Puget Sound region. J. Shepard (2001), *Butts. B. C.*: 308, suggested that the type locality be changed to "Kalama, Cowlitz Co., Wash." thereby making *perdiceas* a synonym of *colon*. I accept the type locality as that originally given, "Mt. Hood", which still renders the taxon a synonym of *E. c. colon* (see A. Warren (2005), *Butts. Ore.*: 246). Thus, a new name is required for population of *E. colon* in the Olympic Mountains (see below). [Hood River-Clackamas counties, Oregon]

**Types:** Lectotype designated by F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 366, fig. 2 ♂ D&V; figured by W. Holland (1931), *Butt. Book* (rev. ed.): pl. 57, figs. 2 ♂ D (lectotype), and Gunder (1929), *Pan-Pac. Entomol.* 6(1): pl. 2 ♂ D&V, as "type."

The spelling of this name was corrected to *perdiceas* by W. H. Edwards (1881), *Papilio* 1(11): 242, an orthography which has been maintained since that time (Code Article 33.3.1).

= ♀ "mcdunnoughi" Gunder, 1928

*Can. Entomol.* 60(7): 163-164, pl. A, figs. 6 ♂ D, 6a ♂ V ("holotype").

**Original Combination:** *Euphydryas colon* tr. f. *mcdunnoughi*

**Type Locality:** "Corvallis, Oregon" [Benton County]

**Types:** "Holotype" in CNC.

This name was spelled "macdunnoughi" by dos Passos (1964), *Mem. Lepid. Soc.* (1): 86; an unjustified emendation.

= ♀ "fenderi" Gunder, 1932

*Pan-Pac. Entomol.* 8(3): 125.

**Original Combination:** *Euphydryas chalcedona* race *colon* tr. f. *fenderi*

**Type Locality:** "near McMinnville, Yamhill County, Oregon"

**Types:** "Holotype" in AMNH.

= ♀ "bakeri" Fender, 1945

*Bull. Brooklyn Entomol. Soc.* 40(2): 54.

**Original Combination:** *Euphydryas colon* ab. *bakeri*

**Type Locality:** "Elk Lake, Santiam Nat. Forest, Oregon" [Marion County]

**Types:** "Holotype" in Fender collection, possibly in OSUC or lost.

c. ***Euphydryas colon sivilhae* Pelham new subspecies**

This taxon is adopted herein to represent populations isolated in the Olympic Mountains of Washington. The review of taxa in this species has left this isolated group of populations without a name.

**Original Combination:** *Euphydryas colon sivilhae*

The name *Euphydryas chalcedona* race *perdiceas* tr. f. *sivilhae* Gunder, 1932, is herein adopted to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

C. Guppy and J. Shepard (2001), *Butts. B. C.*: 308, treated this taxon as *E. c. paradoxa* McDunnough, 1927. It is distinct from all other described subspecies in its range and biology.

= ♀ "sivilhae" Gunder, 1932

*Pan-Pac. Entomol.* 8(3): 126.

**Original Combination:** *Euphydryas chalcedona* race *perdiceas* tr. f. *sivilhae*

**Type Locality:** "Hurricane Hill, Olympic Mountains, Washington" [Clallam County]

**Types:** "Holotype" in AMNH.

d. ***Euphydryas colon wallacensis* Gunder, 1928**

*Pan-Pac. Entomol.* 5(2): 50, pl. 2, fig. C ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Euphydryas wallacensis*

**Type Locality:** "Wallace, Idaho" [Shoshone County]

**Types:** Holotype in AMNH; figured by Gunder (1929), *Pan-Pac. Entomol.* 6(1): pl. 2 ♂ D&V.

= ♀ "huellemanni" J. A. Comstock, 1926

*Bull. South. Calif. Acad. Sci.* 25(1): 32; figured by J. A. Comstock (1927), *Butts. Calif.*: pl. 33, fig. 5 ♂ D ("holotype").

**Original Combination:** *Euphydryas colon* ab. *huellemanni*

**Type Locality:** "Wallace, Idaho" [Shoshone County]

**Types:** "Holotype" in LACM.

= ♀ "idahoensis" Gunder, 1929

*Pan-Pac. Entomol.* 6(1): 3.

**Original Combination:** *Euphydryas chalcedona* race *wallacensis* tr. f. *idahoensis*

**Type Locality:** "Wallace, Idaho" [Shoshone County]

**Types:** "Holotype" in AMNH.

e. ***Euphydryas colon nevadensis* Bauer, 1975**

*In: Howe, Butts. N. Am.*: 181, no. 3e, pl. 42, fig. 8 ♀ D, pl. 45, fig. 11 ♂ D&V (lectotype).

**Original Combination:** [*Euphydryas colon*] *nevadensis*

**Type Locality:** Not stated; lectotype from "Wildhorse Camp, ten miles south of Mountain City, Elko county, Nevada."

**Types:** Lectotype in Bauer collection, designated by L. Miller and F. Brown (1981), *Mem. Lepid. Soc.* (2): 167, note 529.

f. ***Euphydryas colon paradoxa* McDunnough, 1927**

*Can. Entomol.* 59(7): 159, fig. 4 ♂ valve.

**Original Combination:** [*Euphydryas*] *perdiccas* race *paradoxa*

**Type Locality:** "Seton Lake, Lillooet, B. C." [British Columbia]

**Types:** Holotype (#2512) in CNC; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 2 ♂ D&V.

= ♀ "nigrisupernipennis" Gunder, 1926

Entomol. News 37(1): 4, no. 5, pl. 1, fig. 5 ♂ D ("holotype").

**Original Combination:** *Euphydryas perdiccas* ab. ♂ *nigrisupernipennis*

**Type Locality:** "Chilcotin, British Columbia, Canada"

**Types:** "Holotype" in AMNH.

702. *Euphydryas anicia* (E. Doubleday, [1847])

*anicia* group Bauer, 1975

In: Howe, Butts. N. Am.: 182.

a. *Euphydryas anicia helvia* (Scudder, 1869)

Proc. Boston Soc. Nat. Hist. 12: 405.

**Original Combination:** *Melitaea Helvia*

**Type Locality:** "upper end of the Ramparts...cañons, commencing two hundred miles below Fort Yukon, where the river is narrow, deep and swift, running for one hundred and fifty miles between high mountains" [Yukon River, Alaska]

**Types:** Type(s) destroyed in 1871 Chicago fire.

b. *Euphydryas anicia anicia* (E. Doubleday, [1847])

In: Gen. diurn. Lepid. (1) (12): pl. 23, fig. 2 [1847]; 1(21): 179, no. 6 (1848).

**Original Combination:** *Melitaea Anicia*

**Type Locality:** "Rocky Mountains, N. America"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

**Types:** Lectotype (#45-136) in BMNH, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 5 ♂ D&V, as "type."

= ♀ "mayi" Gunder, 1932

Pan-Pac. Entomol. 8(3): 126-127.

**Original Combination:** *Euphydryas anicia* tr. f. *mayi*

**Type Locality:** "Banff, Alberta, Canada"

**Types:** Holotype in AMNH.

c. *Euphydryas anicia howlandi* D. Stallings & Turner, 1947

Can. Entomol. 78(7/8): 137.

**Original Combination:** *Euphydryas anicia howlandi*

**Type Locality:** "Polaris, Montana" [Beaverhead County]

**Types:** Holotype in USNM.

*eurytion* group Bauer, 1975

In: Howe, Butts. N. Am.: 184.

d. *Euphydryas anicia hopfingeri* Gunder, 1934

Can. Entomol. 66(6): 128.

**Original Combination:** *Euphydryas anicia* race *hopfingeri*

**Type Locality:** "Black Canyon, Methow Valley, Okanogan Co., Washington"

**Types:** Holotype in AMNH.

= ♀ "andersoni" (Gunder, 1934)

Can. Entomol. 66(6): 128-129.

**Original Combination:** *Euphydryas anicia hopfingeri* tr. f. *andersoni*

**Type Locality:** "Black Canyon, near Brewster, Okanogan Co., Washington"

**Types:** "Holotype" in AMNH.

e. *Euphydryas anicia bakeri* D. Stallings & Turner, 1945

J. Kansas Entomol. Soc. 18(2): 82.

**Original Combination:** *Euphydryas anicia bakeri*

**Type Locality:** "Cave Creek, Durkee, Oregon...Elevation 2640'" [Baker County]

**Types:** Holotype in USNM.

f. *Euphydryas anicia effi* D. Stallings & Turner, 1945

J. Kansas Entomol. Soc. 18(2): 82-83.

**Original Combination:** *Euphydryas anicia effi*

**Type Locality:** "Corral Creek, Ketchum, Idaho...Elevation 6200' to 7500'" [Blaine County]

**Types:** Holotype in USNM.

g. *Euphydryas anicia windi* Gunder, 1932

Can. Entomol. 64(12): 283.

**Original Combination:** *Euphydryas anicia* race *windi*

**Type Locality:** "Timber Island, Teton Mts., Teton County, Wyoming"

**Types:** Holotype in AMNH.

h. *Euphydryas anicia maria* (Skinner, 1899)

Can. Entomol. 31(1): 12.

**Original Combination:** *Melitaea Maria*

- Type Locality:** "Park City, Utah" [Summit County]  
**Types:** Syntypes (#7018) in ANSP; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V.  
 = ♀"skinneri" Gunder, 1928  
 Can. Entomol. 60(7): 164-165, pl. A, figs. 9 ♂ D, 9a ♂ V ("holotype").  
**Original Combination:** *Euphydryas maria* tr. f. *skinneri*  
**Type Locality:** "Eureka, Utah" [Juab County]  
**Types:** "Holotype" in USNM.
- = ♀"spaldingi" Gunder, 1928  
 Can. Entomol. 60(7): 165, pl. A, figs. 10 ♀ D, 10a ♀ V ("holotype").  
**Original Combination:** *Euphydryas maria* tr. f. *spaldingi*  
**Type Locality:** "Stockton, Utah" [Tooele County]  
**Types:** "Holotype" in USNM.
- i. ***Euphydryas anicia brucei*** (W. H. Edwards, 1888)  
 Can. Entomol. 20(5): 81-82, no. 1.  
**Original Combination:** *M[elitaea]. Brucei*  
**Type Locality:** "only on high mountain tops (in Colorado)...on the Snowy range at not lower than 12,000 feet...Montana, Washington Terr., and British America, in the Rocky Mts."; defined as "above treeline at the head of Hall Valley, Park County, Colorado" or "Whale Mine, Hall Valley, Park County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 366-367.  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 368, fig. 3 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 3 ♂ D.  
 = ♀"melanodisca" (J. A. Comstock, 1918)  
 Lepidopterist 2(5): 34-35, pl. 6, figs. 1 ♂ D, 3 ♂ V ("holotype").  
**Original Combination:** [*Melitaea anicia anicia*] *Melanodisca* aberr. nov.  
**Type Locality:** "Hall Valley, Colorado, at an elevation of about 10,000 feet" [Park County]  
**Types:** "Syntypes" in LACM.
- j. ***Euphydryas anicia eurytion*** (Mead, 1875)  
 Rep. Coll. diurn. Lepid. 5(Zool.): 759.  
**Original Combination:** *Melitaea Eurytion*  
**Type Locality:** "Colorado"; defined as "Twin Lakes, California Gulch, Fairplay and probably Kenosha. Probably not at Turkey Creek Junction" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 160; suggested to be "South Park, Park Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 164; subsequently defined as "South Park, probably near Fairplay, Park Co., Colo." by Scott *et al.* (2006), Papilio (n.s.) 12: 31.  
**Types:** Syntypes in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 57, figs. 15 ♂ D, 16 ♀ D, and Scott *et al.* (2006), Papilio (n.s.) 12: pl. 5, 1st row ♂ D&V, 2nd row ♀ D&V.  
 = *carolae* T. Emmel & L. N. Harris, 1998  
 Syst. W. N. Am. Butts. (32): 433-434, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Euphydryas anicia carolae*  
**Type Locality:** "Colorado: Park County, 1.3 miles south of Fairplay, 9860 ft. elevation, 2.1 miles west of jct. of Hwy. 285 and National Forest access Fourmile Creek Road, on (north side) Fourmile Creek Road which starts 0.3 miles south of Hwy. 285 x Hwy. 9 jct."  
**Types:** Holotype in MGCL.  
 = ♀"rubrolimbata" (J. A. Comstock, 1918)  
 Lepidopterist 2(5): 36-37, pl. 6, fig. 4 ♂ V ("holotype").  
**Original Combination:** [*Melitaea anicia capella*] *Rubrolimbata* aberr. nov.  
**Type Locality:** "South Park, Colorado" [Park County]  
**Types:** "Holotype" in LACM.
- k. ***Euphydryas anicia wecoeut*** M. Fisher, Spomer & Scott, 2006  
 Papilio (n.s.) 12:31-32, pl. 5, 4th row left, center ♂ D&V (holotype), 5th row left ♀ D&V.  
**Original Combination:** *Euphydryas anicia wecoeut*  
**Type Locality:** "Coal Mine Point, Black Ridge, 7500', Mesa Co., Colo." [Colorado]  
**Types:** Holotype in CSUC.
- l. ***Euphydryas anicia alena*** W. Barnes & Benjamin, 1926  
 Bull. South. Calif. Acad. Sci. 25(3): 93, no. 219.1.  
**Original combination:** *Euphydryas alena*  
**Type Locality:** "So. Utah"  
**Types:** Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V.
- m. ***Euphydryas anicia magdalenae*** W. Barnes & McDunnough, 1918  
 Contr. Nat. Hist. Lepid. N. Am. 4(2): 71-72, pl. 11, figs. 1 ♂ D (holotype), 2 ♂ V, 3 ♂ V, 4 ♀ D.  
**Original Combination:** *Euphydryas magdalena*  
**Type Locality:** "White Mtns., Ariz." [Arizona]  
**Types:** Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V.
- n. ***Euphydryas anicia hermosa*** (W. G. Wright, 1905)  
 Butts. W. Coast: 55, no. 179; 157-158, no. 179, pl. 19, figs. 179 ♂ D (lectotype), 179b ♀ D, 179c ♀ V.  
**Original Combination:** [*Melitaea*] *Hermosa*; *Melitaea Hermosa* n. s.  
**Type Locality:** "Southern Arizona"  
**Types:** Lectotype (#4298) in CAS, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V, as "type."  
 = ♀"duncani" Gunder, 1934



Can. Entomol. 66(6): 129.

**Original Combination:** *Euphydryas anicia wheeleri* tr. f. *duncani*

**Type Locality:** "Santa Catalina Mts., Arizona" [Pima County]

**Types:** "Holotype" in AMNH.

Austin (1981), J. Res. Lepid. 19(4): 243, placed this taxon here.

capella group Ferris & R. Holland, 1980

Bull. Allyn Mus. (57): 1.

o. *Euphydryas anicia chuskae* (Ferris & R. Holland, 1980)

Bull. Allyn Mus. (57): 2-3, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Occidryas anicia chuskae*

**Type Locality:** "open clearings along an Inidian [sic] Reservation road, 3-5 miles above (NNW) Toadlena, Chuska Mtns., ca. 7700" (2348m), San Juan Co., New Mexico"

**Types:** Holotype in MGCL.

p. *Euphydryas anicia carmentis* W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 93, no. 220.1.

**Original Combination:** *Euphydryas carmentis*

**Type Locality:** "Pagosa Springs, Colo." [Archuleta County, Colorado]

**Types:** Holotype in USNM; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 7 ♂ D&V.

= ♀ "charlotteae" Gunder, 1928

Can. Entomol. 60(7): 165, pl. B, figs. 11 ♀ D, 11a ♀ V ("holotype").

**Original Combination:** *Euphydryas carmentis* tr. f. *charlotteae*

**Type Locality:** "Pagosa Springs, Archuleta Co., Colorado"

**Types:** "Holotype" in USNM.

q. *Euphydryas anicia cloudcrofti* (Ferris & R. Holland, 1980)

Bull. Allyn Mus. (57): 3, 5, 7, 8, figs. 15 ♂ D, 16 ♂ V (holotype); 17 ♀ D, 18 ♀ V.

**Original Combination:** *Occidryas anicia cloudcrofti*

**Type Locality:** "Pines Campground, 2 mi NE of Cloudcroft, Sacramento [sic] Mtns., 8600' (2623m), Otero Co., New Mexico" [Sacramento Mountains]

**Types:** Holotype in MGCL.

r. *Euphydryas anicia capella* (W. Barnes, 1897)

Can. Entomol. 29(2): 41.

**Original Combination:** *Melitaea nubigena*, var. *capella*

**Type Locality:** "Around Manitou and Denver"; defined as "Manitou Springs, El Paso Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 164.

**Types:** Lectotype in USNM, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V, as "type"; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 57, figs. 18 ♂ D, 19 ♀ D.

= ♀ "oslari" Gunder, 1925

Entomol. News 36(7): 196-197, no. 7, pl. 5, fig. 7 ♂ D ("holotype").

**Original Combination:** *Euphydryas anicia* var. *capella* ab. ♂ *oslari*

**Type Locality:** "Platte Canyon, Colorado" [Jefferson-Douglas counties]

**Types:** "Holotype" in AMNH.

bernadetta group Bauer, 1975

In: Howe, Butts. N. Am.: 186-187.

s. *Euphydryas anicia bernadetta* Leussler, 1920

Entomol. News 31(4): 102-103.

**Original Combination:** *Euphydryas bernadetta*

**Type Locality:** "Monroe Canyon, near Harrison, Sioux County, Nebraska"

**Types:** Lectotype in OSU, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 6 ♂ D&V, as "type"; a "paratype" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 57, fig. 14 ♂ D.

The treatment of *bernadetta* as a species-level taxon (e.g., Kohler and Kondla (2006), Papilio (n.s.) 12: 30, and Scott (2006), Papilio (n.s.) 12: 30, 32-35) is premature and not well supported; a detailed investigation is needed.

= ♀ "leussleri" Gunder, 1927

Entomol. News 38(5): 136, no. 8, pl. 2, fig. 8 ♂ D ("holotype").

**Original Combination:** *Euphydryas bernadetta leussleri* ♂ nov. tr. form

**Type Locality:** "near Harrison, Sioux County, Nebraska"

**Types:** "Holotype" in OSU.

= ♀ "belli" Gunder, 1929

Pan-Pac. Entomol. 6(1): 4-5.

**Original Combination:** *Euphydryas anicia* race *bernadetta* tr. f. *belli*

**Type Locality:** "Harrison, Sioux Co., Nebraska"

**Types:** "Holotype" in AMNH.

t. *Euphydryas anicia veazieae* Fender & Jewett, 1953

Wasmann J. Biol. 11(1): 117-119.

**Original Combination:** *Euphydryas anicia veazieae*

**Type Locality:** "Jackass Mountains, Harney County, Oregon"

**Types:** Syntypes in Fender and Jewett collections, possibly in OSAC or lost; figured by Howe (1975), Butts. N. Am.: pl. 39, figs. 15 ♂ D&V, 18 ♀ D.

= *wenatchee* Scott, 2006

*Papilio* (n.s.) 12: 30, pl. 4, 4th row center ♂ D&V (holotype)

**Original Combination:** *Euphydryas bernadetta wenatchee*

**Type Locality:** "8 mi N Kittitas, 1/4 mi above Colockum Pass Road, ~1000' altitude, Kittitas Co., Wash., a rocky ridge under powerlines in sage-steppe above Ponderosa Pine belt" [Washington]

**Types:** Holotype in BMNH.

- u. *Euphydryas anicia macyi* Fender & Jewett, 1953

Wasmann J. Biol. 11(1): 115-117.

**Original Combination:** *Euphydryas anicia macyi*

**Type Locality:** "Wildhorse Creek, Alvord Basin, Harney County, Oregon"

**Types:** Holotype in Fender collection, possibly in OSAC or lost.

wheeleri group Bauer, 1975

In: Howe, Butts. N. Am.: 188.

- v. *Euphydryas anicia wheeleri* (Hy. Edwards, 1881)

*Papilio* 1(4): 52-53.

**Original Combination:** *Melitaea wheeleri* n. var [of *anicia*]

**Type Locality:** "Southern Nevada"; defined as "mouth of Meadow Canyon, Toquima Range, Nye County, Nevada" by Austin (1998), Syst. W. N. Am. Butts. (50): 635.

**Types:** Lectotype in AMNH, designated by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V, as "type."

- w. *Euphydryas anicia morandi* Gunder, 1928

Entomol. News 39(10): 304-305, pl. 14, figs. A ♂ D (holotype), AA ♀ D, ♂ & ♀ V.

**Original Combination:** *Euphydryas morandi*

**Type Locality:** "Kyle Canyon only at 10,500 to 11,000 feet on Mt. Charleston Peak in Spring Mountain, Clark County, Nevada"

**Types:** Holotype in AMNH; figured by Gunder (1929), Pan-Pac. Entomol. 6(1): pl. 8 ♂ D&V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 57, fig. 22 ♂ D.

- x. *Euphydryas anicia varicolor* Baughman & Murphy, 1998

Syst. W. N. Am. Butts. (29): 400-401, fig. 9 ♂ D (holotype).

**Original Combination:** *Euphydryas chalcidona varicolor*

**Type Locality:** "California, Mono Co., ridge south of Sonora Pass in the Sierra Nevada, 9600 feet"

**Types:** Holotype in LACM.

This taxon was placed here by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (72): 828.

#### New Subtribe

This will be described by Wahlberg *et al.* (*in prep.*).

#### Genus *Poladryas* Bauer, 1961

In: P. Ehrlich and A. Ehrlich, How Know Butts.: 109, 130. Type-species: *Melitaea pola* Boisduval, 1869, Anns. Soc. Entomol. Belg. 12: 56, no. 44, by original designation. Bauer misidentified *Melitaea arachne* W. H. Edwards, 1869, Trans. Am. Entomol. Soc. 2(4): 372, as *pola*, as determined by F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, fig. 2, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32, figs. 243 ♂ D, 244 ♂ V. This is a case of a misidentified type species. The type species is herein fixed (under Code Article 70.3) as *Melitaea arachne* W. H. Edwards, 1869, misidentified in Bauer's original designation.

703. *Poladryas minuta* (W. H. Edwards, 1861)

- a. *Poladryas minuta minuta* (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 161, no. 2.

**Original Combination:** *Melitaea minuta*

**Type Locality:** "Texas"; neotype from "Comfort, Texas." [Kendall County]

**Types:** Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 417, fig. 20, ♂ D&V; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 36, figs. 1 ♂ D, 2 ♂ V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 58, fig. 12 ♂ V.

= *approximata* (Strecker, 1900)

Lepid. Rhop. Het. (suppl. 3): 23.

**Original Combination:** *Melitaea Approxinata*

**Type Locality:** "Texas"

**Types:** Syntypes in FMNH.

704. *Poladryas arachne* (W. H. Edwards, 1869)

- a. *Poladryas arachne arachne* (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 372.

**Original Combination:** *Melitaea Arachne*

**Type Locality:** "Colorado"; defined as "vicinity of Golden, Jefferson County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 411.

**Types:** Holotype in FMNH, figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 412, fig. 19 ♂ D&V.

= ♀ "gunderiae" (W. Holland, 1930)

Ann. Carnegie Mus. 19(3): 156; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 58, fig. 10 ♀ D ("holotype").

**Original Combination:** *Melitaea arachne* ab. *gunderiae*

**Type Locality:** Not stated; suggested to be "Colorado" by W. Holland (1931), Butt. Book (rev. ed.): 128.

**Types:** "Holotype" in CMNH.

b. *Poladryas arachne gilensis* (W. Holland, 1930)

Ann. Carnegie Mus. 19(3): 156; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 58, fig. 18 ♀ D (not ♂ as stated).

**Original Combination:** *Melitaea gilensis*

**Type Locality:** "Wheeler Expedition...Ft. Gila...southern Arizona"; defined as "Along the west fork of the Gila River in Catron Co., New Mexico" by Ferris (1989), Mem. Lepid. Soc. (3): 42.

**Types:** Holotype in CMNH.

c. *Poladryas arachne expedita* Austin, 1998

Syst. W. N. Am. Butts. (46): 575-576, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Poladryas arachne expedita*

**Type Locality:** "Nevada: Clark County; Spring Mountains, Nevada State Route 160, 1.0 road mile west of Mountain Springs Summit, 1800 m, T22S R58E S19 on USGS Mt. Springs, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

d. *Poladryas arachne nympha* (W. H. Edwards, 1884)

Papilio 4(3): 53-54.

**Original Combination:** *Melitaea Nympha*

**Type Locality:** "southern Arizona"; defined as "vicinity of Fort Grant, Graham County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 418.

**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 419, fig. 21 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 16, fig. 21 ♂ D.

Austin (1998), Syst. W. N. Am. Butts. (46): 576, determined this arrangement.

= ♀ "skinneri" (Oberthür, 1923)

Étud. Lépid. Comp. 20: 303, pl. 564, fig. 4859 ♂ D&V ("holotype").

**Original Combination:** *Melitaea Arachne* Aberr. *Skinneri*

**Type Locality:** "Fort Wingate" [McKinley County, New Mexico]

**Types:** "Holotype" in USNM.

= ♀ "polingi" (Gunder, 1926)

Entomol. News 37(1): 2-3, no. 2, pl. 1, fig. 2 ♂ D ("holotype").

**Original Combination:** *Melitaea pola* var. *arachne* ab. ♂ *polingi*

**Type Locality:** "White Mts., Arizona"

**Types:** "Holotype" in AMNH.

e. *Poladryas arachne monache* (J. A. Comstock, 1918)

Lepidopterist 2(9/10): 71-73; (11) figs. 1 ♀ D, 2 ♀ D, 3 ♀ V.

**Original Combination:** *Melitaea monache*

**Type Locality:** "8500 to 9000 feet elevation, in the Monache Meadows of Tulare County, California"

**Types:** Syntypes in LACM; figured by Comstock (1927), Butts. Calif.: pl. 38, figs. 11 ♀ D, 12 ♀ V.

Genus *Chlosyne* Butler, 1870

Cist. Entomol. 1(3): 38, no. 37. Type-species: *Papilio janaïs* Drury, 1782, Ill. Nat. Hist., 3: 22, index, pl. 17, figs. 5, 6, as replacement name. Proposed to replace *Synchlœ* E. Doubleday, 1844, preoccupied (Code Articles 60.3, 67.8). The synonymy for this genus follows Wahlberg and Zimmerman (2000), Cladistics 16(4): 347-363.

= ♀ *Morpheis* Geyer, [1833]

In: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4. Type-species: *Morpheis ehrenbergii* Geyer, [1833], in: Hübner, Samml. exot. Schmett., 3: pl [5], figs. 1-4, by monotypy. Preoccupied by *Morpheis* Hübner, [1820], Verz. bekannt. Schmett., 13: 196.

= ♀ *Synchlœ* E. Doubleday, [1845]

List Spec. Lepid. Brit. Mus. 1: 76. Type-species: *Papilio janaïs* Drury, 1782, Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5, 6, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 141, no. 253. Preoccupied by *Synchlœ* Hübner, 1818, Zutr. Samml. exot. Schmett. 1: 26.

= ♀ *Coatlantona* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 178. Type-species: *Papilio janaïs* Drury, 1782, Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5, 6, as replacement name. Proposed to replace *Synchlœ* E. Doubleday, 1844, preoccupied (Code Articles 60.3, 67.8). A junior objective synonym of *Chlosyne* Butler, 1870.

= *Anemeca* W. F. Kirby, 1871

Syn. Cat. diurn. Lepid.: 179. Type-species: *Morpheis ehrenbergii* Geyer, [1833], in: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4, as replacement name. Proposed to replace *Morpheis* Geyer, [1833], in: Hübner, Samml. exot. Schmett. 3: pl [5], figs. 1-4, preoccupied (Code Articles 60.3, 67.8).

= *Charidryas* Scudder, 1872



- 4th Ann. Rept. Peabody Acad. Sci. (1871): 47. Type-species: *Melitaea nycteis* E. Doubleday, [1847], in: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 3; (21): 181 (1848), by original designation.  
 = *†Limnaecia* Scudder, 1872  
 4th Ann. Rept. Peabody Acad. Sci. (1871): 47. Type-species: *Melitaea harrisii* Scudder, 1863, Proc. Essex Inst. 3: 167-168, no. 36, by original designation. Preoccupied by *Limnaecia* Stainton, 1851, Suppl. Cat. Brit. Pteroph.: 4.  
 = *Thessalia* Scudder, 1875  
 Bull. Buffalo Soc. Nat. Sci. 2(4): 238, 265, no. 49. Type-species: *Melitaea leanira* C. Felder & R. Felder, 1860, Wien. Entomol. Montaschr. 4(4): 106, no. 64, by original designation.
705. **Chlosyne janais** (Drury, 1782)  
 a. **Chlosyne janais janais** (Drury, 1782)  
 Ill. Nat. Hist. 3: 22, index, pl. 17, figs. 5 ♂ D, 6 ♂ V.  
**Original Combination:** *Papilio Janais*  
**Type Locality:** "Sierra Leone" in error.  
**Types:** Type(s) lost.
706. **Chlosyne definita** (E. Aaron, 1885)  
 a. **Chlosyne definita definita** (E. Aaron, 1885)  
 Papilio 4(9/10): 176-177.  
**Original Combination:** *Melitaea Definita*  
**Type Locality:** "Inland from Corpus Christi" [Nueces County, Texas]  
**Types:** Syntypes in CMNH, FMNH and in ANSP; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, figs. 14 ♂ D, 15 ♂ V.  
 As first revisers, W. Barnes and McDunnough (1917), Check List Lepid. Bor. Am.: 9, no. 239, gave *definita* priority over *albiplaga*.  
 = *albiplaga* (E. Aaron, 1885)  
 Papilio 4(9/10): 175-176.  
**Original Combination:** *Melitaea Albiplaga*  
**Type Locality:** "Gulf region near Corpus Christi" [Nueces County, Texas]  
**Types:** Holotype (#7756) in ANSP.  
 = *schausi* (Godman & Salvin, 1901)  
 Biol. centr.-amer., Lepid. Rhop. 2(163): 676-677, no. 4; 3(166): pl. 108, figs. 11 ♂ D, 12 ♂ V (holotype).  
**Original Combination:** *Melitaea schausi*  
**Type Locality:** "Mexico, Paso de San Juan in Vera Cruz" [Veracruz]  
**Types:** Holotype in BMNH.
- b. **Chlosyne definita anastasia** (Hemming, 1934)  
 Stylops 3(9): 193.  
**Original Combination:** *Melitaea anastasia*  
 Proposed to replace *Melitaea beckeri* Godman & Salvin, 1901, with the same data (Code Article 60.3).  
 = *†beckeri* (Godman & Salvin, 1901)  
 Biol. centr.-amer., Lepid. Rhop. 2(163): 676, no. 3; 3(166): pl. 108, figs. 9 ♂ D, 10 ♂ V (holotype).  
**Original Combination:** *Melitaea beckeri*  
**Type Locality:** "Mexico, Durango city" [Durango]  
**Types:** Holotype in BMNH.  
 Preoccupied by *Melitaea artemis* var. *beckeri* Herrich-Schäffer, 1851, Syst. Bearb. Schmett. Europ. 6: 1.
- \*707. **Chlosyne endeis** (Godman & Salvin, 1894)  
 Ann. Mag. Nat. Hist. (6) 14(80): 97, no. 5; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 5 ♂ D, 6 ♂ V.  
**Original Combination:** *Synchloë endeis*  
**Type Locality:** "Sierra Madre de Tepic, Western Mexico" [Nayarit]  
**Types:** Holotype in BMNH.
- a. **Chlosyne endeis pardelina** Scott, 1986  
 Butts. N. Am.: 301, no. 212.  
**Original Combination:** [*Chlosyne endeis*] *pardelina*  
 Scott adopted *Chlosyne endeis* form *pardelina* Higgins, 1960, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).  
 = *†"pardelina"* Higgins, 1960  
 Trans. R. Entomol. Soc. Lond. 112(14): 420.  
**Original Combination:** *Chlosyne endeis* form *pardelina*  
**Type Locality:** "La Gloria, S of Monclova, Coahuila, Mexico, 3300"  
**Types:** "Holotype" in AMNH.
708. **Chlosyne melitaeoides** (C. Felder & R. Felder, 1867)  
 Reise Novara Zool. (3): 396, no. 586.  
**Original Combination:** *Synchloe Melitaeoides*  
**Type Locality:** "Mexico"  
**Types:** Holotype in BMNH.  
 R. Kendall and McGuire (1984), Bull. Allyn Mus. (86): 28-29, figs. 28, 29, ♂&♀, D&V, detailed the occurrence of this taxon in Texas.

709. **Chlosyne eumeda** (Godman & Salvin, 1894)  
Ann. Mag. Nat. Hist. (6)14(80): 96, no. 2; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 1 ♂ D, 2 ♂ V.  
**Original Combination:** *Synchloë eumeda*  
**Type Locality:** "Mochitlan in the State of Guerrero, Western Mexico"  
**Types:** Holotype in BMNH.  
= *dryope* (Godman & Salvin, 1894)  
Ann. Mag. Nat. Hist. (6)14(80): 96-97, no. 2; figured by Godman and Salvin (1901), Biol. centr.-amer., Lepid. Rhop. 3(166): pl. 108, figs. 3 ♂ D, 4 ♂ V (holotype).  
**Original Combination:** *Synchloë dryope*  
**Type Locality:** "State of Jalisco, Western Mexico"  
**Types:** Holotype in BMNH.  
= *fasciata* Röber, 1914  
In: Seitz, Grossschmett. Erde 5(187): pl. 91g, fig. [5] ♂ D; (192): 452.  
**Original Combination:** *Chlosyne fasciata*  
**Type Locality:** "Mexico (Guerrero)"  
**Types:** Lectotype in BMNH, designated by Lamas (1999), Revta Peru Entomol. 41: 41.
- \*710. **Chlosyne rosita** A. Hall, 1924  
Entomol. 57(11)[738]: 241, no. 1, figs. 2 ♂ D, 3 ♂ V, 4 ♀ V.  
**Original Combination:** *Chlosyne rosita*  
**Type Locality:** "Western Guatemala, Moran, 3700 ft....Palin, 3500 ft....Escuintla, 2000 ft."  
**Types:** Holotype in BMNH.  
a. **Chlosyne rosita browni** Bauer, 1960  
J. Lepid. Soc. 14(2): 150-151, figs. 1a, 1b ♀ D&V, 2a, 2b ♂ D&V (holotype).  
**Original Combination:** *Chlosyne rosita browni*  
**Type Locality:** "El Salto, 1,600 feet elevation, San Luis Potosi, Mexico"  
**Types:** Holotype in PMNH.  
b. **Chlosyne rosita montana** A. Hall, 1924  
Entomol. 57(11)[738]: 241-242, no. 2, figs. 1 ♂ D.  
**Original Combination:** *Chlosyne lacinia montana*  
**Type Locality:** "Mexico, Mt. Popocatepetl, 10,000 ft." [Mexico/Puebla states]  
**Types:** Holotype in BMNH.
- \*711. **Chlosyne theona** (Ménétriés, 1855)  
Enum. corp. anim. (1): 86-87, no. 444, pl. 2, fig. 5 ♂ D&V.  
**Original Combination:** *Melitaea theona*  
**Type Locality:** "Nicaragua"  
**Types:** Type(s) possibly lost; Austin and M. Smith (1998), Syst. W. N. Am. Butts. (28): 360, determined that there are no syntypes at ZIN.  
a. **Chlosyne theona thekla** (W. H. Edwards, 1870)  
Trans. Am. Entomol. Soc. 3(2): 189, 191, no. 4.  
**Original Combination:** *Melitaea Thekla*  
**Type Locality:** "Southern California"; corrected to "vicinity of old Fort Lowell, near Tucson, Pima Co., Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 392-394.  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 395, fig. 13 ♂ D&V.  
= ♀ "benjamini" (Gunder, 1928)  
Can. Entomol. 60(7): 166, pl. B, figs. 15 ♂ D, 15a ♂ V ("holotype").  
**Original Combination:** *Melitaea (Lemonias) theona* race *thekla* tr. f. *benjamini*  
**Type Locality:** "So. Arizona"  
**Types:** "Holotype" in AMNH.  
b. **Chlosyne theona bollii** (W. H. Edwards, 1877)  
Field & Forest 3(6): 101-102.  
**Original Combination:** *Melitaea Bollii*  
**Type Locality:** "San Antonio, Texas" [Bexar County]  
**Types:** Holotype (#7757) in ANSP, figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 397, fig. 13 ♂ D&V.  
c. **Chlosyne theona chinatiensis** (Tinkham, 1944)  
Can. Entomol. 76(1): 12-13, no. 8, fig. 1 ♂ (left half) V, (right half) D (holotype), 2 (left half) V, (right half) D.  
**Original Combination:** *Melitaea chinatiensis*  
**Type Locality:** "Chinati Mountains, 4500 feet elevation, Presidio Co., Texas"  
**Types:** Holotype lost or destroyed; lectotype in CAS, designated by Austin and M. Smith (1998), Syst. W. N. Am. Butts. (28): 369.
712. **Chlosyne cyneas** (Godman & Salvin, 1878)  
Proc. Zool. Soc. Lond. 1878(1): 269, no. 12; figured by Godman and Salvin (1882), Biol. centr.-amer., Lepid. Rhop. 3(21): pl. 21, figs. 10 ♂ D, 11 ♂ V.  
**Original Combination:** *Phyciodes cyneas*  
**Type Locality:** "Mexico, mountains of Oaxaca"  
**Types:** Holotype in BMNH.  
= ♀ "infrequens" (Gunder, 1928)

Can. Entomol. 60(7): 166, pl. B, figs. 14 ♂ D, 14a ♂ V ("holotype").

**Original Combination:** *Melitaea (Lemonias) cyneas* tr. f. *infrequens*

**Type Locality:** "Huachuca Mts., Ariz." [Cochise County, Arizona]

**Types:** "Holotype" in AMNH.

713. **Chlosyne fulvia** (W. H. Edwards, 1879)

a. **Chlosyne fulvia fulvia** (W. H. Edwards, 1879)

Can. Entomol. 11(6): 117-118.

**Original Combination:** *Melitaea Fulvia*

**Type Locality:** "Western Texas"; defined as "grasslands adjacent to the Wichita River...Archer County, Texas" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 390-391.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 131, pl. 59, fig. 6 ♂ V; figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 391, fig. 12 ♂ D&V.

= ♂ "sinefascia" (R. Williams, 1914)

Entomol. News 25(6): 265, no. 6.

**Original Combination:** *Melitaea fulvia sinefascia* n. aberr.

**Type Locality:** "Jamez [sic!] Mountains, New Mexico" implied from the title of the paper. [Jemez Mountains, Sandoval County]

**Types:** "Holotype" in CMNH.

b. **Chlosyne fulvia pariaensis** (M. Smith & Brock, 1988)

Bull. Allyn Mus. (118): 10-12, figs. 15 ♂ D, 16 ♀ D, 29 ♂ D, 30 ♀ D, 31 ♂ V.

**Original Combination:** *Thessalia fulvia pariaensis*

**Type Locality:** "Utah, Kane County, the Cockscomb Ridge, ca. 61 road km east of Kanab"

**Types:** Holotype in LACM.

c. **Chlosyne fulvia coronado** (M. Smith & Brock, 1988)

Bull. Allyn Mus. (118): 6-8, figs. 13 ♂ D, 14 ♀ D.

**Original Combination:** *Thessalia fulvia coronado*

**Type Locality:** "Arizona: Pima County, summit of Redington Pass, 20 km ENE of Tucson, Santa Catalina Mts."

**Types:** Holotype in LACM.

714. **Chlosyne leanira** (C. Felder & R. Felder, 1860)

a. **Chlosyne leanira oregonensis** Bauer, 1975

In: Howe, Butts. N. Am.: 166-167, no. 16a, pl. 40, fig. 17 ♀ D&V (holotype).

**Original Combination:** [*Chlosyne (Thessalia) leanira*] *oregonensis*

**Type Locality:** Not specifically stated; holotype from "Mt. Ashland, Loop Road, Jackson Co., Ore." [Oregon]

**Types:** Holotype in LACM.

b. **Chlosyne leanira leanira** (C. Felder & R. Felder, 1860)

Wien. Entomol. Montaschr. 4(4): 106, no. 64; figured by C. Felder and R. Felder (1867), Reise Novara Zool. (3): pl. 50, figs. 13 ♂ D, 14 ♂ V.

**Original Combination:** *Melitaea Leanira*

**Type Locality:** "Californien"; suggested to be "vic. San Francisco, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 153; corrected to "Hwy 70 at Chambers Creek, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89.

**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 89, figs. 13 ♂ D, 14 ♂ V.

= *daviesi* (Wind, 1947)

Pan-Pac. Entomol. 23(4): 171.

**Original Combination:** *Melitaea leanira daviesi*

**Type Locality:** "Strawberry Lake, Tuolumne County, California, el. 5500 ft."

**Types:** Holotype in CAS.

c. **Chlosyne leanira obsoleta** (Hy. Edwards, 1877) †

Proc. Calif. Acad. Sci. [1]7(12): 171.

**Original Combination:** *Melitaea Leanira* Var. *Obsoleta*

**Type Locality:** "Near San Rafael, in Marin County" [California]

**Types:** Lectotype in AMNH, designated by Austin and M. Smith (1998), Syst. W. N. Am. Butts. (26): 336.

= *leona* (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 186; 160, no. 186, pl. 20, figs. 186, 186b ♀ D&V (holotype).

**Original Combination:** [*Melitaea*] *Leona*; *Melitaea Leona* n. v.

**Type Locality:** "Southern California" "San Rafael, Cali." [Marin County]

**Types:** Holotype (#4305) in CAS.

d. **Chlosyne leanira nebularum** (Austin & M. Smith, 1998)

Syst. W. N. Am. Butts. (26): 335, figs. 7 ♂ D, 15 ♂ V (holotype); 8 ♀ D, 16 ♀ V.

**Original Combination:** *Thessalia leanira nebularum*

**Type Locality:** "California: Santa Cruz County; Highland Way, 3 to 4 road miles southeast of the Soquel to San Jose road"

**Types:** Holotype in MGCL.

e. **Chlosyne leanira elegans** (Priestaf & J. Emmel, 1998)

Syst. W. N. Am. Butts. (26): 327-328, 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Thessalia leanira elegans*

**Type Locality:** "California: San Luis Obispo County; Oso Flaco Sand Dunes, in the vicinity of Oso Flaco Lake"

**Types:** Holotype in LACM.



- f. *Chlosyne leanira wrighti* (W. H. Edwards, 1886)  
 Can. Entomol. 18(4): 64-65, no. 3.  
**Original Combination:** *Melitaea Wrightii*  
**Type Locality:** "San Bernardino" [San Bernardino County, California]  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 389, fig. 11 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 17, figs. 9 ♂ D (lectotype), 10 ♀ V (paralectotype).  
 = *cerrita* (W. G. Wright, 1905)  
 Butts. W. Coast 55, no. 189; 161, no. 189, pl. 20, figs. 189, 189a ♂ D&V (lectotype), 189b ♀ V.  
**Original Combination:** [*Melitaea*] *Cerrita*; *Melitaea Cerrita* n. s.  
**Type Locality:** "Southern California"; stated as "edge of Mojave Desert" by Bauer (1975), *in*: Howe, Butts. N. Am.: 168.  
**Types:** Lectotype (#4306) in CAS, designated by Tilden (1985), Occ. Pap. Calif. Acad. Sci. (118): 22.  
 Austin and Murphy [1989], J. Res. Lepid. 26(1-4): 280-281, determined this synonymy.  
 = *pelona* (Gunder, 1930)  
 Bull. South. Calif. Acad. Sci. 29(2): 61, no. 71.  
**Original Combination:** *Melitaea wrightii* form *pelona*  
**Type Locality:** "Mint Canyon" [Sierra Pelona Valley, Los Angeles County, California]  
**Types:** Holotype possibly in LACM; figured by Comstock (1927), Butts. Calif.: pl. 39, fig. 16 ♀ V.  
 = ♂ "carolynae" (Gunder, 1926)  
 Entomol. News 37(1): 3, no. 3, pl. 1, fig. 3 ♂ D ("holotype").  
**Original Combination:** *Melitaea wrighti* ab. ♂ *carolynae*  
**Type Locality:** "Mint Canyon, Los Angeles County, California" [Sierra Pelona Valley]  
**Types:** "Holotype" in AMNH.
- g. *Chlosyne leanira alma* (Strecker, [1878])  
 Lepid. Rhop. Het. (15): 135, pl. 15 ♂ D&V.  
**Original Combination:** *Melitaea Alma*  
**Type Locality:** "Arizona...S. Utah"; defined as "vic. St. George, Washington Co., Utah" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 153; redefined as "northwestern Mohave County" by Austin and M. Smith (1998), Syst. W. N. Am. Butts. (27): 340. Lectotype is labeled "Arizona."  
**Types:** Lectotype in FMNH, designated by Austin and M. Smith (1998), Syst. W. N. Am. Butts. (27): 340.  
 = ♂ "koebelei" (Gunder, 1927)  
 Entomol. News 38(5): 136, no. 7, pl. 2, fig. 7 ♀ V ("holotype").  
**Original Combination:** *Lemonias alma koebelei* ♀ nov. tr. form  
**Type Locality:** "Argus Mts., Inyo County, California"  
**Types:** "Holotype" in CAS.
- h. *Chlosyne leanira basinensis* (Austin & M. Smith, 1998)  
 Syst. W. N. Am. Butts. (27): 341-342, figs. 53 ♂ D, 59 ♂ V (holotype); 54 ♀ D, 60 ♀ V.  
**Original Combination:** *Thessalia leanira basinensis*  
**Type Locality:** "Nevada: Lyon County; Sweetwater Mountains, Nevada State Route 338, 1.0 miles northeast of the California state line, 1825 m, T7N R25E S26 on USGS Bridgeport, Calif.-Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- i. *Chlosyne leanira flavodorsalis* (Austin & M. Smith, 1998)  
 Syst. W. N. Am. Butts. (27): 342-343, figs. 55 ♂ D, 61 ♂ V (holotype); 56 ♀ D, 62 ♀ V.  
**Original Combination:** *Thessalia leanira flavodorsalis*  
**Type Locality:** "Utah: San Juan County; Comb Ridge, 4 road miles west of Bluff on U.S. highway 163"  
**Types:** Holotype in MGCL.
715. *Chlosyne nycteis* (E. Doubleday, [1847])
- a. *Chlosyne nycteis pastoron* Pelham *nomen novum*  
 Herein proposed to replace *Chlosyne ismeria obsoleta* Gatterle, 2003, preoccupied, with the same data (Code Article 60.3).  
 = ♂ *obsoleta* Gatterle, 2003  
 Tax. Rep. Int. Lepid. Surv. 4(4): 10, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V, 21 ♂ D, 22 ♂ V, 23 ♀ D, 24 ♀ V.  
**Original Combination:** *Chlosyne ismeria obsoleta*  
**Type Locality:** "North Carolina: Macon County, Jones Knob 4200"  
**Types:** Holotype in MGCL collection.  
 Preoccupied by *Melitaea Leanira* var. *obsoleta* Hy. Edwards, 1877, Proc. Calif. Acad. Sci. [1]7(12): 171, currently in *Chlosyne*.
- b. *Chlosyne nycteis nycteis* (E. Doubleday, [1847])  
*In*: Gen. diurn. Lepid. (1)(12): pl. 23, fig. 3 ♀ D [1847]; (21): 181, no. 23 (1848).  
**Original Combination:** *Melitaea Nycteis*  
**Type Locality:** "United States (Middle States)"  
**Types:** Syntype (#Rh8433) in BMNH.  
 = *oenone* (Scudder, 1863)  
 Proc. Essex Inst. 3: 166, no. 35.  
**Original Combination:** *Melitaea Oenone*  
**Type Locality:** "Lenox and Williamstown, Mass....Norway, Me." [Berkshire County, Massachusetts; Oxford County, Maine]  
**Types:** Syntypes possibly in MCZ.  
 = ♂ "milburni" (C. Rummel, 1926)

- Bull. Brooklyn Entomol. Soc. 21(5): 203.  
**Original Combination:** *Phyciodes nycteis* ab. *milburni*  
**Type Locality:** "Millburn, N. J." [Union County, New Jersey]  
**Types:** "Holotype" in AMNH.  
 = *♯*"lacteus" (Gunder, 1928)  
 Can. Entomol. 60(7): 166, pl. B, figs. 16 ♂ D, 16a ♂ V ("holotype").  
**Original Combination:** *Phyciodes nycteis* tr. f. *lacteus*  
**Type Locality:** "near St. Louis, Mo." [St. Louis County, Missouri]  
**Types:** "Holotype" in AMNH.  
 = *♯*"greyi" (W. D. Field, 1934)  
 Can. Entomol. 66(11): 256.  
**Original Combination:** *Phyciodes nycteis* tr. f. *greyi*  
**Type Locality:** "north west edge of city limits of Lawrence" [Douglas County, Kansas]  
**Types:** "Holotype" in USNM.
- c. **Chlosyne nycteis reversa** (F. Chermock & R. Chermock, 1940)  
 Can. Entomol. 72(4): 83.  
**Original Combination:** *Phyciodes nycteis reversa*  
**Type Locality:** "Riding Mtns., Manitoba"  
**Types:** Holotype in CNC.
- d. **Chlosyne nycteis drusius** (W. H. Edwards, 1884)  
 Papilio 4(3): 57.  
**Original Combination:** *Phyciodes Nycteis* var. *Drusius*  
**Type Locality:** "Colorado and Arizona"; defined as "Turkey Creek Junction, Jefferson County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 401-402.  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 402, fig. 15 ♂ D&V.  
 = *♯*"hewitsoni" (W. D. Field, 1936)  
 J. Entomol. & Zool. 28(2): 23.  
**Original Combination:** *Phyciodes nycteis* race *drusius* tr. f. *hewitsoni*  
**Type Locality:** "Greaterville, Arizona" [Pima County]  
**Types:** "Holotype" in USNM.
716. **Chlosyne gorgone** (Hübner, [1810])  
 a. **Chlosyne gorgone gorgone** (Hübner, [1810])  
 Samml. exot. Schmett. 1: pl. [41], figs. 1 ♂ D, 2 ♂ V (not figs. 3, 4).  
**Original Combination:** *Dryas reticulata Gorgone*  
**Type Locality:** Not stated; suggested to be "Burke Co., in southern Georgia" by W. Forbes (1960), Mem. Cornell Univ. Agric. exp. Sta. 371 (part 4): 156; neotype from "Burke County, Georgia."  
**Types:** Type(s) lost. Neotype in MGCL, designated by Gatrell (1998), Tax. Rep. Int. Lepid. Surv. 1(2): 5, fig. 2 ♂ D&V.
- b. **Chlosyne gorgone carlota** (Reakirt, 1866)  
 Proc. Entomol. Soc. Philad. 6[1]: 141.  
**Original Combination:** *Eresia Carlota*  
**Type Locality:** "Rocky Mountains, Colorado Territory"; suggested to be "Illinois, Missouri" by W. H. Edwards (1861) Proc. Acad. Nat. Sci. Philad. 13[6]: 161, no. 3; neotype from "Cedar Hill/Jeff[erson] Co., Mo." [Missouri]  
**Types:** Neotype in MGCL, designated by F. Brown (1974), Bull. Allyn Mus. (16): 4, fig. ♂ D&V.  
 This name was proposed for *Melitaea nycteis* (sensu W. H. Edwards (1861), Proc. Acad. Nat. Sci. Philad. 13[6]: 161, no. 3).  
 = *♯* *ismeria* (Boisduval & Le Conte, [1835])  
 Hist. Lépid. Amér. sept.(19): 168-169; (16): pl. 46, figs. 1 ♀ D, 2 ♀ V, 3 larva, 4 pupa.  
**Original Combination:** *M[elitaea]. Ismeria*  
**Type Locality:** "Caroline et la Géorgie"  
**Types:** Described from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Gatrell (1998), Tax. Rep. Int. Lepid. Surv. 1(2): 1-8, and Gatrell (2003), Tax. Rep. Int. Lepid. Surv. 4(4): 1-9, claimed to have rediscovered this taxon, believed it conspecific with *Chlosyne nycteis* (E. Doubleday, [1847]), and treated it as the senior synonym of that name. He also designated a specimen of *C. nycteis* as neotype of *ismeria*.  
 This name was suppressed by I.C.Z.N. *Opinion 2160*. For details on this synonymy, see Calhoun (2003), J. Lepid. Soc. 57(3): 204-219, (2004), J. Lepid. Soc. 58(3): 143-168, (2005), J. Lepid. Soc. 59(3): 172-173, and Calhoun *et al.* (2005), Bull. Zool. Nomen. 62(2): 79-83.  
 = *♯*"nigra" (M. Cary, 1901)  
 Can. Entomol. 33(11): 307-308.  
**Original Combination:** *Phyciodes ismeria*, ab. *nigra*  
**Type Locality:** "bottom of Monroe Canon" [Sioux County, Nebraska]  
**Types:** Location of "holotype" not known.
717. **Chlosyne californica** (W. G. Wright, 1905)  
 Butts. W. Coast. 56, no. 212; 170, no. 212, pl. 21, figs. 212 ♂ D, 212a ♂ D (lectotype), 212b ♀ D, 212bb ♀ D, 212c ♀ V.  
**Original Combination:** [*Synchlœ*] *Californica*; *Synchlœ Californica* n. s.  
**Type Locality:** "Colorado Desert of Southeast. Cal." [San Bernardino County, California]  
**Types:** Lectotype (#4309) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 24.  
 = *♯*"chinoi" Gunder, 1924  
 Entomol. News 35(5): 157, pl. 2, fig. I ♀ D ("holotype").

**Original Combination:** *Chlosyne californica* ab. ♀ *chinois*

**Type Locality:** "Palm Springs (Chino Canyon), Riverside County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 38, fig. 15 ♀ D.

\*718. ***Chlosyne lacinia*** (Geyer, 1837)

*In:* Hübner, Zutr. Samml. exot. Schmett. 5: pl. [155], figs. 899 ♂ D, 900 ♂ V [1836]; 25, no. 450 (1837, name given).

**Original Combination:** *Araschnia Lacinia*

**Type Locality:** "Mexico"

**Types:** Type(s) probably lost.

= *tellias* (H. Bates, 1864)

Entomol. Mon. Mag. 1(4): 84-85, no. 42.

**Original Combination:** *Synchlœ tellias*

**Type Locality:** "Guatemala"

**Types:** Holotype in BMNH.

= *quehtala* (Reakirt, 1866)

Proc. Acad. Nat. Sci. Philad. 18(3): 248, no. 24.

**Original Combination:** *Synchlœ quehtala*

**Type Locality:** "Mexico"

**Types:** Location of type(s) not known.

= *ardema* (Reakirt, [1867])

Proc. Acad. Nat. Sci. Philad. 18(3): 366, no. 39.

**Original Combination:** *Synchlœ ardema*

**Type Locality:** "Mexico, (near Vera Cruz)" [Veracruz]

**Types:** Location of type(s) not known.

= *misera* (C. Felder & R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 471-472, no. 21.

**Original Combination:** *Synchlœ misera*

**Type Locality:** "Huahuapan" [Huajuapán de León, Oaxaca, Mexico]

**Types:** Holotype in BMNH.

= *pretona* (Boisduval, 1870)

Lepid. Guat.: 37-38.

**Original Combination:** *Synchlœ Pretona*

**Type Locality:** "Guatemala"

**Types:** Types possibly in BMNH.

= *adelina* (Staudinger, 1875)

Verh. zool.-bot. Ges. Wien 25: 102, no. 12.

**Original Combination:** *Synchlœ Adelina*

**Type Locality:** "Panamá als Chiriqui"

**Types:** Location of type(s) not known.

= ‡"indigens" Higgins, 1961

Trans. R. Entomol. Soc. Lond. 112(14): 408 (b); cited Godman and Salvin (1882), Biol. centr.-amer., Lepid. Rhop. 3(17): pl. 19, fig. 14 ♀ D, 15 ♀ V (as *lacinia*).

**Original Combination:** [*Chlosyne lacinia lacinia*] form *indigens*

**Type Locality:** "Costa Rica: Escazu"

**Types:** Syntypes in BMNH.

a. ***Chlosyne lacinia crocale*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 17; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 37, fig. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Synchlœ Crocale*

**Type Locality:** "White Mtns, Arizona"; suggested to be "country directly northeast of old Camp Apache, now Fort Apache, in the extreme southeastern corner of Navajo County and in extreme southwestern Apache County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 407.

**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 409, fig. 18 ♂ D&V.

= ‡"rufescens" (W. H. Edwards, 1893)

Can. Entomol. 25(11): 287.

**Original Combination:** [*Synchlœ crocale*] aberration *rufescens*

**Type Locality:** "Juarey [sic!], Mexico (across the river opposite El Paso)" [Cuidad Juarez, Chihuahua]

**Types:** "Type(s)" may not have existed.

Cockerell (1894), Can. Entomol. 26(1): 30, redescribed *Synchlœ lacinia* ab. *rufescens* from "Juarez (not Juarey), Mexico."

= ‡"rufa" (T. Cockerell, 1893)

*In:* W. H. Edwards, Can. Entomol. 25(11): 286.

**Original Combination:** [*Synchlœ Lacinia*] form *rufa*

**Type Locality:** "Las Cruces, New Mexico" [Dona Ana County]

**Types:** "Type(s)" probably never existed.

Described as a color form of the larva.

= ‡"bicolor" (T. Cockerell, 1893)

*In:* W. H. Edwards, Can. Entomol. 25(11): 287.

**Original Combination:** [*Synchlœ Lacinia*] form *bicolor*



- Type Locality:** "Las Cruces, New Mexico" [Dona Ana County]  
**Types:** "Type(s)" probably never existed.  
 Described as a color form of the larva.
- = *‡*"nigra" (T. Cockerell, 1893)  
*In:* W. H. Edwards, Can. Entomol. 25(11): 287.  
**Original Combination:** [*Synchlœ Lacinia*] form *nigra*  
**Type Locality:** "Las Cruces, New Mexico" [Don Ana County]  
**Types:** "Type(s)" probably never existed.  
 Described as a color form of the larva.
- = *‡*"nigrescens" (W. H. Edwards, 1893)  
 Can. Entomol. 25(11): 287.  
**Original Combination:** [*Synchlœ Crocale*] ab. *nigrescens*  
**Type Locality:** "Juarey [*sic*], Mexico (across the river opposite El Paso)" [Cuidad Juarez, Chihuahua]  
**Types:** "Type(s)" may not have existed.
- = *‡*"inghami" Gunder, 1928  
 Can. Entomol. 60(7): 167, pl. B, figs. 20 ♂ D, 20a ♂ V ("holotype").  
**Original Combination:** *Chlosyne lacinia* race *rufescens* tr. f. *inghami*  
**Type Locality:** "Mesa, Ariz." [Mariposa County, Arizona]  
**Types:** "Holotype" in AMNH.
- = *‡*"flavida" Higgins, 1960  
 Trans. R. Entomol. Soc. Lond. 112(14): 409.  
**Original Combination:** *Chlosyne lacinia crocale* form *flavida*  
 Proposed to replace *Synchlœ crocale* aberration *rufescens* W. H. Edwards, 1893, Can. Entomol. 25(11): 287, but that is an infrasubspecific name, not subject to homonymy (Code Article 1.3.4).
- b. *Chlosyne lacinia adjutrix* Scudder, 1875  
 Bull. Buffalo Soc. Nat. Sci. 2(4): 269, no. 183.  
**Original Combination:** [*Chlosyne*] *Adjutrix*  
**Type Locality:** "Texas"  
**Types:** Holotype probably in MCZ.
719. *Chlosyne harrisii* (Scudder, 1863)
- a. *Chlosyne harrisii harrisii* (Scudder, 1863)  
 Proc. Essex Inst. 3: 167-168, no. 36.  
**Original Combination:** *Melitaea Harrisii*  
**Type Locality:** "Norway, Maine...Pittsfield, N. H....Sutton and Princeton, Mass." [Oxford County, Maine, Merrimack County, New Hampshire, Worcester County, Massachusetts]  
**Types:** Syntype (#26344) in MCZ.
- b. *Chlosyne harrisii albimontana* (Avinoff, 1930)  
 Ann. Carnegie Mus. 19(3): 163-164, no. 2, pl. 6, figs. 8 ♂ D (holotype), 9 ♂ V.  
**Original Combination:** *Melitaea harrisii albimontana*  
**Type Locality:** "White Mtns." [New Hampshire]  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 11 ♂ D.
- c. *Chlosyne harrisii liggetti* (Avinoff, 1930)  
 Ann. Carnegie Mus. 19(3): 161-162, no. 1, pl. 6, figs. 4 ♂ D (holotype), 5 ♀ V, 6 ♂ V, 7 ♀ V.  
**Original Combination:** *Melitaea harrisii liggetti*  
**Type Locality:** "Cook Forest...Slippery Rock, Pa." [Clarion County, Pennsylvania]  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 12 ♂ D.
- d. *Chlosyne harrisii hanhami* (Fletcher, 1903)  
 Proc. & Trans. R. Soc. Can. (2)9(Sect. IV): 208-210, unnumbered pl., fig. ♂ D, ♀ V.  
**Original Combination:** *Phyciodes hanhami*  
**Type Locality:** "Manitoba (Eastern, Central and Southern), Minnesota...Winnipeg...at Bird's Hill...Brandon...Rounthwaite, Man....Aweine, Man."; stated to be "Manitoba and Minnesota" by Fletcher (1904), Can. Entomol. 36(5): 122, fig. ♂ D, ♀ V.  
**Types:** Syntypes in USNM; "types" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 74, figs. 9 ♂ D, 10 ♀ D.  
 This taxon was redescribed by Fletcher (1904), Can. Entomol. 36(5): 122, fig. ♂ D, ♀ V.
720. *Chlosyne hoffmanni* (Behr, 1863)
- a. *Chlosyne hoffmanni hoffmanni* (Behr, 1863)  
 Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 88, 89, no. 4.  
**Original Combination:** *M[elitaea]. Hoffmanni*  
**Type Locality:** "California" implied from the title of the paper, "peculiar to the higher regions of California" from the description; neotype from "Gold Lake, Sierra County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 99, figs. 22 ♂ D, 23 ♂ V.  
 = *helcita* (Boisduval, 1869)  
 Anns. Soc. Entomol. Belg. 12: 55-56, no. 43; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2186 ♂ D&V, 2187 ♀ D&V.  
**Original Combination:** *Melitaea Helcita*  
**Type Locality:** "dans les contrées du Sud" in error; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32, figs. 240 ♂ D, 241 ♂ V.  
= ♀ "abnorma" (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 183; 160, no. 183, pl. 20, figs. 183, 183b ♀ D&V ("holotype").

**Original Combination:** [*Melitaea Hoffmanni* var.] *Abnorma*; *Melitaea Abnorma* n. v.

**Type Locality:** "Sierra Nevada, 7,000 ft., Calif."; "Truckee, Cal." [Nevada County, California]

**Types:** "Holotype" (#4303) in CAS.

The text clearly indicates that this taxon was described as an individual variant.

= ♀ "hollandae" (Gunder, 1928)

Can. Entomol. 60(7): 166, pl. B, figs. 13 ♀ D, 13a ♀ V ("holotype").

**Original Combination:** *Melitaea (Lemonias) hoffmanni* tr. f. *hollandae*

**Type Locality:** "Summit, California" [Placer County, California]

**Types:** "Holotype" in CMNH; figured by W. Holland (1898), Butt. Book: pl. 17, fig. 14 ♀ D.

**b. *Chlosyne hoffmanni segregata*** (W. Barnes & McDunnough, 1918)

Contr. Nat. Hist. Lepid. N. Am. 4(2): 72-73, pl. 11, figs. 8 ♂ D, 9 ♂ D (holotype), 10 ♂ V.

**Original Combination:** *Melitaea hoffmanni segregata*

**Type Locality:** "Crater Lake, Oregon, 6500 ft." [Klamath County]

**Types:** Holotype in LACM.

= *bridgei* (J. A. Comstock, 1924)

Bull. South. Calif. Acad. Sci. 23(6): 173-174; figured by J. A. Comstock (1927), Butts. Calif.: pl. 37, fig. 9 ♂ D (holotype), 10 ♂ V, 11 ♀ D (as *Melitaea hoffmanni segregata*).

**Original Combination:** *Melitaea Bridgei*

**Type Locality:** "Crater Lake, Oregon" [Klamath County]

**Types:** Holotype in LACM.

**c. *Chlosyne hoffmanni manchada*** Bauer, 1960

J. Lepid. Soc. 13(4): 208-210, figs. 7 ♂ D, 8 ♂ V.

**Original Combination:** *Chlosyne hoffmanni manchada*

**Type Locality:** "1,600 feet elevation in Tumwater Canyon, Drury, Chelan Co., Washington"

**Types:** Holotype in LACM.

721. ***Chlosyne whitneyi*** (Behr, 1863)

Proc. Calif. Acad. Sci. 3(1) ([sig.] 6): 88-89, no. 2.

**Original Combination:** *Melitaea Whitneyi*

**Type Locality:** "California" implied from the title of the paper, "the headwaters of the Tuolumne River...in the elevated and uninhabited regions" from the description; neotype from "north slope of Mt. Dana, at lower end of Glacier Canyon, 11,000' elevation, Mono County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 98, figs. 16 ♂ D, 17 ♂ V.

This name has long been used for the high-elevation populations of *C. palla* in the Sierra Nevada, now called *C. p. altasierra* J. Emmel, T. Emmel and Mattoon (1998) (e.g., Bauer (1975), in: Howe, Butts. N. Am.: 155, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156). The original description, locality and habitat of *whitneyi* suggest that it is a senior synonym of *malcolmi*; the recently designated neotype confirms this.

= *malcolmi* (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butts. Calif.: pl. 36, figs. 10 ♂ D (holotype), 11 ♀ D, 12 ♂ V.

**Original Combination:** *Melitaea malcolmi*

**Type Locality:** "Near Mammoth Camp, Mono County, Calif." [California]

**Types:** Holotype in LACM.

722. ***Chlosyne acastus*** (W. H. Edwards, 1874) (1870)

The name *acastus* has long been associated with this suite of taxa. The discovery that populations given the name *sterope* (W. H. Edwards, 1870), formerly considered a subspecies of *Chlosyne palla* (Boisduval, 1852), are actually conspecific with *C. acastus*, threatens the seniority of the latter name; see A. Warren (2005), Butts. Ore.: 225-232. Replacing *acastus* with *sterope* as the species-level name (e.g., Scott (2006), Papilio (n.s.) 12: 37-38), would create an unnecessary and cumbersome reassignment of names. A paper is being prepared to cite the evidence for implementation of Code Article 81.2.3, to grant *acastus* status as a *nomen protectum*.

**a. *Chlosyne acastus sabina*** (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 181; 159, no. 181, pl. 20, fig. 181 ♀ D (holotype).

**Original Combination:** [*Melitaea*] *Sabina*; *Melitaea Sabina* n. s.

**Type Locality:** "Catalina Mountains of Arizona"; Sabino Canyon implied from the formation of the name. [Pima County]

**Types:** Holotype (#4302) in CAS.

J. A. Comstock (1920), Southwest Sci. Bull. [1]: 30-32, pl. [1], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, redescribed and figured this taxon.

**b. *Chlosyne acastus neumoegeni*** (Skinner, 1895)

Entomol. News 6(4): 113.

**Original Combination:** *Melitaea neumoegeni*

**Type Locality:** "Utah"; syntype from "Virgin River Valley, Washington Co., Utah."

**Types:** Syntype (#7019) in ANSP.

= ♀ "fridayi" (Gunder, 1932)

Can. Entomol. 64(12): 283.

**Original Combination:** *Melitaea neumoegeni* tr. f. *fridayi*

**Type Locality:** "Little Rock, Los Angeles Co., Calif." [California]



- Types: "Holotype" in AMNH.  
 = *♂*"boharti" (Gunder, 1933)  
 Can. Entomol. 65(8): 173.  
**Original Combination:** *Melitaea neumoegeni* tr. f. *boharti*  
**Type Locality:** "Little Rock, Los Angeles Co., Calif." [California]  
 Types: "Holotype" in AMNH.
- c. *Chlosyne acastus acastus* (W. H. Edwards, 1874)(1870)  
 Trans. Am. Entomol. Soc. 5(1): 16-17.  
**Original Combination:** *Melitaea Acastus*  
**Type Locality:** "Montana...Nevada...Southern Utah"; defined as "Provo Canyon, Utah County, Utah" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 402-403.  
 Types: Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 404, fig. 16 ♂ D&V; figured by W. Holland (1898), Butt. Book: pl. 16, fig. 11 ♂ D.
- d. *Chlosyne acastus arkanyon* M. Fisher & Scott, 2006  
 Papilio (n.s.) 12: 37-38, pl. 6, 1st row left ♂ D, 2nd row left ♂ V (holotype), 1st row center ♀ D, 2nd row center ♀ V.  
**Original Combination:** *Chlosyne sterope (acastus) arkanyon*  
**Type Locality:** "Poncha Creek, along Hwy. 285, south of Poncha Springs, 7800 ft., Chaffee Co. Colorado"  
 Types: Holotype in CSUC.
- e. *Chlosyne acastus vallismortis* (J. Johnson, 1938) (emended)  
 Bull. South. Calif. Acad. Sci. 37(1): 18-20.  
**Original Combination:** *Melitaea palla vallis-mortis*  
**Type Locality:** "Tuber Canyon Spring in the Panamint Mountains...Tuber Canyon, Panamint Mountains, elevation 8,000 feet, Death Valley National Monument, California" [Inyo County]  
**Type Locality:** Holotype in LACM.  
 J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 141, placed this taxon here.
- f. *Chlosyne acastus robusta* Austin, 1998  
 Syst. W. N. Am. Butts. (46): 576, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Chlosyne acastus robusta*  
**Type Locality:** "Nevada: Clark County; Spring Mountains, Kyle Canyon Campground, 2072 m, T19S R57E S28 on USGS Charleston Peak, Nev. 15' quadrangle"  
 Types: Holotype in MGCL.
- g. *Chlosyne acastus waucoba* J. Emmel, T. Emmel & Mattoon, 1998  
 Syst. W. N. Am. Butts. (12): 142-143, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.  
**Original Combination:** *Chlosyne (Charidryas) acastus waucoba*  
**Type Locality:** "California: Inyo County; one half air mile north of Cerro Gordo (town), Inyo Mountains, 8100' elevation"  
 Types: Holotype in LACM.  
 = *♀*"pearlae" (Gunder, 1926)  
 Entomol. News 37(1): 5, no. 7, pl. 1, fig. 7 ♀ D (holotype).  
**Original Combination:** *Melitaea acastus* ab. ♀ *pearlae*  
**Type Locality:** "Casa Diablo Hills, Mono County, California"  
 Types: "Holotype" in AMNH.
- h. *Chlosyne acastus dorothei* Bauer, 1975  
*In:* Howe, Butts. N. America: 157, no. 5a, pl. 40, figs. 9 ♀ D&V, 12 ♂ D&V (lectotype; as *Chlosyne palla sterope*).  
**Original Combination:** [*Chlosyne (Charidryas) acastus*] *dorothei*  
**Type Locality:** "Burnt and Snake River Canyons, Oregon"; lectotype from "Durkee, Oregon." [Baker County]  
 Types: Lectotype in LACM, designated by Ferris (1989), Mem. Lepid. Soc. (3): 44.
- i. *Chlosyne acastus sterope* (W. H. Edwards, 1870)  
 Trans. Am. Entomol. Soc. 3(2): 189, 190-191, no. 3.  
**Original Combination:** *Melitaea Sterope*  
**Type Locality:** "Oregon"; defined as "Tygh Valley, Wasco county, Oregon" by Bauer (1975), *in:* Howe, Butts. N. Am.: 157.  
 Types: Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 124, pl. 58, fig. 23 ♀ D; figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 407, fig. 17 ♀ D&V.  
 = *hewesi* (Leussler, 1931)  
 Entomol. News 42(1): 12.  
**Original Combination:** *Melitaea hewesi*  
**Type Locality:** "Tygh, Oregon, about 25 miles south of the Columbia River near the Dalles in Sherman [*sic!*] County" [Tygh Valley, Wasco County]  
 Types: Holotype probably in OSU.  
 Gunder (1934), Can. Entomol. 66(6): 130, was the first to recognize that *hewesi* is a synonym of *sterope*.  
 = *♂*"hopfingeri" Gunder, 1934  
 Can. Entomol. 66(6): 129-130.  
**Original Combination:** *Melitaea sterope* tr. f. *hopfingeri*  
**Type Locality:** "Aster Island (Columbia River) near Brewster, Okanogan Co., Washington"  
 Types: "Holotype" in AMNH.
723. *Chlosyne gabbii* (Behr, 1863)  
 a. *Chlosyne gabbii gabbii* (Behr, 1863)  
 Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 88, 89, no. 3.



**Original Combination:** *M[elitaea]. Gabbii*

**Type Locality:** "California" implied from the title of the paper, "the mountains near Los Angeles" from the description; neotype from "La Tuna Canyon, Verdugo Mountains, Los Angeles County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 99, figs. 19 ♂ D, 20 ♂ V.

= *pola* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 56, no. 44.

**Original Combination:** *Melitaea Pola*

**Type Locality:** "Sonora"; suggested to be "somewhere from Los Angeles southward into extreme northern Baja California" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; defined as "La Tuna Canyon, 1,200' elev., Verdugo Mts., Los Angeles County, California" by Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32.

**Types:** Holotype in CMNH, as determined by F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, fig. 2 ♂ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32, figs. 243 ♂ D, 244 ♂ V.

Boisduval loaned the holotype to W. H. Edwards, but died before it could be returned. The subsequent figure of a specimen of *Poladryas arachne* by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, fig. 2188, and designation of that figure as the type of "*pola*" by W. Barnes and McDunnough, (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 92, contributed to the general acceptance of this name as a senior synonym of *arachne* (e.g., dos Passos (1964), Mem. Lepid. Soc. (1): 85, and Bauer (1961), in: P. Ehrlich and A. Ehrlich, How Know Butts.: 130). F. Brown (1965), J. Lepid. Soc. 19(4): 206-207, detailed the particulars of this confusion and figured the holotype of *pola*, justifying its placement in the synonymy of *C. gabbii*.

= *sonorae* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 56-57, no. 45; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 261, figs. 2189 ♂ D&V, 2190 ♀ D&V.

**Original Combination:** *Melitaea Sonorae*

**Type Locality:** "De la Sonora"; suggested to be "somewhere from Los Angeles southward into extreme northern Baja California" by F. Brown (1967), J. Lepid. Soc. 21(4): 273; stated to be "vic. Los Angeles, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 157; further defined as "La Tuna Canyon, 1,200' elev., Verdugo Mts., Los Angeles County, California" by Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32, figs. 246 ♂ D, 247 ♂ V.

= *pasadenae* (Gunder, 1924)

Entomol. News 35(5): 155, pl. 2, fig. C ♂ D ("holotype").

**Original Combination:** *Euphydryas gabbii* ab. ♂ *pasadenae*

**Type Locality:** "Pasadena, Los Angeles County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 36, fig. 4 ♂ D.

= *gunderi* (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butts. Calif.: pl. 36, fig. 6 ♂ D ("holotype").

**Original Combination:** *Melitaea gabbii* ab. *gunderi*

**Type Locality:** "San Fernando, Calif." [Los Angeles County, California]

**Types:** "Holotype" in LACM.

= *newcombi* (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butts. Calif.: pl. 36, fig. 5 ♀ D ("holotype").

**Original Combination:** *Melitaea gabbii* ab. *newcombi*

**Type Locality:** "Pasadena, Calif." [Los Angeles County, California]

**Types:** "Holotype" in LACM.

b. *Chlosyne gabbii atrifasciata* Hawks & J. Emmel, 1998

Syst. W. N. Am. Butts. (25): 322-323, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Chlosyne (Charidryas) gabbii atrifasciata*

**Type Locality:** "California: Santa Barbara County, Santa Cruz Island; La Cascada"

**Types:** Holotype in LACM.

724. *Chlosyne palla* (Boisduval, 1852)

a. *Chlosyne palla eremita* (W. G. Wright, 1905)

Butts. W. Coast: 55, no. 178; 157, no. 178, pl. 19, figs. 178 ♀ D (lectotype), 178b ♀ D, 178c ♀ V.

**Original Combination:** [*Melitaea*] *Eremita*; *Melitaea Eremita* n. s.

**Type Locality:** "Lake County, California"; defined as "San Rafael, Marin County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 141, but the original citation is adequate. Populations in Lake County are phenotypically like those in Marin County.

**Types:** Lectotype (#4296) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 21.

J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (12): 141, and A. Warren (2005), Butts. Ore.: 227, discussed the status of this taxon.

= *hemifusa* (Gunn, 1930)

Entomol. News 41(1): 17.

**Original Combination:** *Melitaea palla* ab. *hemifusa*

**Type Locality:** "Cazadero, Sonoma County, California"

**Types:** "Holotype" in CIS.

b. *Chlosyne palla blackmorei* Pelham new subspecies

This taxon is adopted herein to represent the populations in southeastern British Columbia, eastern Washington, northeastern

Oregon and western Montana discussed by A. Warren (2005), Butts. Ore.: 227.

**Original Combination:** *Chlosyne palla blackmorei*

The name *Melitaea palla* ab. ♀ *blackmorei* Gunder, 1926, is herein adopted to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= ♀ "blackmorei" (Gunder, 1926)

Entomol. News 37(1): 6, no. 8, pl. 1, fig. 8 ♀ D ("holotype").

**Original Combination:** *Melitaea palla* ab. ♀ *blackmorei*

**Type Locality:** "Lytton, British Columbia, Canada"

**Types:** "Holotype" in AMNH.

c. *Chlosyne palla palla* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2) 10(2): 305, no. 48; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 259, figs. 2173 ♂ D&V, 2174 ♀ D&V.

**Original Combination:** *Melitaea palla*

**Type Locality:** "Dans une grande partie de la Californie"; defined as "vic. San Francisco, California" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156; corrected to "Hwy. 70 at Chambers Creek, ca. 6 rd. Mi SW of Belden, North Fork Feather River Canyon, 1850' elev., Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 18.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 18, figs. 99 ♂ D, 100 ♂ V.

= ♀ "wardi" (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 79, pl. 259, fig. 2175 ♂ D&V ("holotype").

**Original Combination:** [*Melitaea Palla*] aberration *Wardi*

**Type Locality:** Not stated; "Californie" implied from the title of the paper.

**Types:** "Holotype" in USNM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 27, fig. 2 ♂ D&V.

= ♀ "stygiaria" (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 32; figured by J. A. Comstock (1927), Butts. Calif.: pl. 36, fig. 19 ♀ D ("holotype").

**Original Combination:** *Melitaea palla* ab. *stygiaria*

**Type Locality:** "Willow Ranch, Modoc County, Calif." [California]

**Types:** "Holotype" in LACM.

d. *Chlosyne palla altasierra* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (12): 140-141, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Chlosyne (Charidryas) palla altasierra*

**Type Locality:** "California: El Dorado County; Fallen Leaf Lake; elevation ca. 6400"

**Types:** Holotype in LACM.

Before its description, this taxon had been known as "*C. palla whitneyi*" (e.g., Bauer (1975), *in*: Howe, Butts. N. Am.: 155, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 156).

= ♀ "vanduzei" (Gunder, 1928)

Can. Entomol. 60(7): 165, pl. B, figs. 12 ♂ V, 12a ♂ D (holotype).

**Original Combination:** *Melitaea (Lemonias) palla* race *whitneyi* tr. f. *vanduzei*

**Type Locality:** "Portola, Calif." [Plumas County, California]

**Types:** "Holotype" in CAS.

e. *Chlosyne palla australomontana* J. Emmel, T. Emmel & Mattoon, 1998

Syst. W. N. Am. Butts. (12): 141-142, figs. 9 ♂ D, 10 ♂ V, 11 ♀ D, 12 ♀ V.

**Original Combination:** *Chlosyne (Charidryas) palla australomontana*

**Type Locality:** "California: Tulare County, Kennedy Meadows Road, 16-20 mi. W. of Hwy. 395"

**Types:** Holotype in LACM.

f. *Chlosyne palla flavula* (W. Barnes & McDunnough, 1918)

Contr. Nat. Hist. Lepid. N. Am. 4(2): 73-74, pl. 11, figs. 14 ♂ D, 15 ♂ V.

**Original Combination:** *Melitaea flavula*

**Type Locality:** "Glenwood Spgs., Colo....Hall Valley, Colo."; defined as "Glenwood Springs, Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 157. [Garfield County]

**Types:** Syntypes in USNM; one figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 56, fig. 25 ♂ D.

g. *Chlosyne palla calydon* (W. Holland, 1931)

Butt. Book (rev. ed.): 125, pl. 58, figs. 19 ♂ D, 20 ♀ D (syntypes).

**Original Combination:** *Melitaea calydon*

**Type Locality:** "Turkey Creek Junction, Colorado" [Jefferson County]

**Types:** Syntypes in CMNH.

This name was listed but not described by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): 760, and Strecker (1878), Butts. & Moths N. Am., Comp. Syn. Cat.: 126; on both occasions it is a *nomen nudum*.

725. *Chlosyne damoetas* (Skinner, 1902)

a. *Chlosyne damoetas damoetas* (Skinner, 1902)

Entomol. News 13(10): 304-305.

**Original Combination:** *M[elitaea]. damoetas*

**Type Locality:** "South Park...Williams River Range...Hall Valley" [Colorado]

**Types:** Syntype (#7021) in ANSP.

b. *Chlosyne damoetas windriver* Scott, 1998

Papilio (n.s.) 11: 3, fig. 5 ♂ D (holotype), 6 ♀ D.

**Original Combination:** *Chlosyne whitneyi windriver*



**Type Locality:** "Near Bears Ears Mountain, 11,000', Wind River Mts., Wyo." [Fremont County, Wyoming]

**Types:** Holotype in BMNH.

c. ***Chlosyne damoetas altalus*** Scott, 1998

*Papilio* (n.s.) 11: 3, fig. 3 ♂ D (holotype), 4 ♀ D.

**Original Combination:** *Chlosyne whitneyi altalus*

**Type Locality:** "Nigel Pass" [Alberta]

**Types:** Holotype in BMNH.

= ♀ "damoetella" (McDunnough, 1927)

Can. Entomol. 59(7): 160.

**Original Combination:** [*Melitaea damoetas*] ab. *damoetella*

**Type Locality:** "Mount McLean" [vic. Lillooet, British Columbia]

**Types:** "Holotype" (#2433) in CNC.

Genus ***Microtia*** H. Bates, 1864

Entomol. Mon. Mag. 1(4): 83. Type-species: *Microtia elva* H. Bates, 1864, Entomol. Mon. Mag. 1(4): 83, no. 39, by original designation.

726. ***Microtia elva*** H. Bates, 1864

a. ***Microtia elva elva*** H. Bates, 1864

Entomol. Mon. Mag. 1(4): 83, no. 39.

**Original Combination:** *Microtia elva*

**Type Locality:** "Guatemala, interior; also Nicaragua"

**Types:** Holotype in BMNH.

Genus ***Dymasia*** Higgins, 1960

Trans. R. Entomol. Soc. Lond. 112(14): 455-456. Type-species: *Melitaea dymas* W. H. Edwards, 1877, Can. Entomol. 9(6): 190-191, by original designation.

727. ***Dymasia dymas*** (W. H. Edwards, 1877)

a. ***Dymasia dymas dymas*** (W. H. Edwards, 1877)

Can. Entomol. 9(10): 190-191.

**Original Combination:** *Melitaea dymas*

**Type Locality:** "San Antonio, Texas" [Bexar County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 132, pl. 16, fig. 18 ♀ [not ♂] D.

= *larunda* (Strecker, [1878])

Lepid. Rhop. Het. (14): 130.

**Original Combination:** *Melitaea Larunda*

**Type Locality:** Not stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from introductory text. [Comal and Bexar counties]

**Types:** Syntypes in FMNH.

= *senrabii* (W. Barnes, 1900)

Can. Entomol. 32(2): 42, 43.

**Original Combination:** *Melitaea Senrabii*

**Type Locality:** "Corpus Christi, Texas" [Nueces County]

**Types:** Holotype in USNM.

b. ***Dymasia dymas chara*** (W. H. Edwards, [1884])

Can. Entomol. 15(11): 209-210.

**Original Combination:** *Melitaea Chara*

**Type Locality:** "South Arizona"; defined as "vicinity of Tucson, Pima County, Arizona" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 380.

**Types:** Lectotype in USNM, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 382, fig. 8 ♂ D&V.

c. ***Dymasia dymas imperialis*** (Bauer, 1959)

Lepid. News 12(3/4): 98; figured in Howe (1975), Butts. N. Am.: pl. 1, figs. 18 ♂ D, 19 ♀ D&V.

**Original Combination:** *Melitaea chara imperialis*

**Type Locality:** "Palm Springs, Riverside Co., California"

**Types:** Holotype in LACM.

= ♀ "jacinto" (Gunder, 1924)

Entomol. News 35(5): 154, pl. 2, fig. B ♂ D ("holotype").

**Original Combination:** *Melitaea chara* ab. ♂ *jacinto*

**Type Locality:** "Palm Springs, Riverside County, California"

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 37, fig. 12 ♂ D.

= ♀ "nitela" (J. A. Comstock, 1926)

Bull. South. Calif. Acad. Sci. 25(1): 33; figured by J. A. Comstock (1927), Butts. Calif.: pl. 37, fig. 13 ♂ V ("holotype").

**Original Combination:** *Melitaea chara* ab. *nitela*

**Type Locality:** "Near Palm Springs, Coachella Valley, Calif." [California]



**Types:** "Holotype" in LACM.

Genus *Texola* Higgins, 1959

Lepid. News 12(5-6): 161, figs. 1b, 2b ♂ genitalia, 3b palp, 4b FW venation (*dymas*), 5b FW (*dymas*). Type-species: *Eresia elada* Hewitson, 1868, Ill. exot. Butts. 4(33): [49], pl. Eresia VII [19], figs. 54, 55, by original designation.

\*728. *Texola elada* (Hewitson, 1868)

Ill. exot. Butts. 4(33): [49], pl. Eresia VII [19], figs. 54 ♂ D, 55 ♂ V.

**Original Combination:** *Eresia Elada*

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

= *callina* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 54, no. 39.

**Original Combination:** *Melitaea Callina*

**Type Locality:** "dans la Sonora, nous avons reçu du Mexique plusieurs individus de cette même espèce"; lectotype is labeled, probably erroneously, "Sonora."

**Types:** Lectotype in CMNH, designated by Higgins (1960), Trans. R. Entomol. Soc. Lond. 112(14): 452-453; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 59, fig. 21 ♂ D. F. Brown (1965), J. Lepid. Soc. 19(4): 209, fig. 4 ♂ D&V, and J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 31, figs. 231 ♂ D, 232 ♂ V.

J. Emmel *et al.* (1998), *ibid.*, discussed this taxon and the uncertainty about its type locality. The lectotype was loaned to W. H. Edwards by Boisduval, but Boisduval died before it could be returned. The subsequent figure of a specimen of *Texola elada ulrica* by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, fig. 2185 ♂ D&V, and designation of that figure as the "type" of *callina* by W. Barnes and McDunnough (1916), Contr. Nat. Hist. Lepid. N. Am. 3(2): 92, confused the issue; F. Brown (1965), J. Lepid. Soc. 19(4): 207-211, detailed this confusion. The actual type locality remains unknown; there currently are no populations of *Texola* in Lorquin's "Sonora" (the vicinity of Los Angeles, California), and the phenotype of the lectotype is typical of central Mexican *T. e. elada*.

= *socia* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 470-471, no. 18.

**Original Combination:** *Eresia socia*

**Type Locality:** not stated; "Mexico" implied from the title of the paper.

**Types:** Location of type(s) not known.

a. *Texola elada ulrica* (W. H. Edwards, 1877)

Can. Entomol. 9(10): 189-190.

**Original Combination:** *Melitaea ulrica*

**Type Locality:** "San Antonio, Texas" [Bexar County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 132, pl. 17, fig. 2 ♂ D; figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 383, fig. 9 ♂ D&V.

= *imitata* (Strecker, [1878])

Lepid. Rhop. Het. (14): 130.

**Original Combination:** *Melitaea Imitata*

**Type Locality:** Not specifically stated; "vicinity of New Braunfels and San Antonio, Southwestern Texas" implied from introductory text. [Comal and Bexar counties]

**Types:** Syntypes in FMNH.

b. *Texola elada perse* (W. H. Edwards, 1882)

Papilio 2(8): 136.

**Original Combination:** *Melitaea Perse*

**Type Locality:** "Fort Grant and in Graham Mountains, Arizona" implied from the title of the paper. [Graham County]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 132, pl. 16, fig. 19 ♂ D; figured by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 385, fig. 10 ♂ D&V.

‡"suffusa" Ottolengui, 1895

Entomol. News 6(7): 217.

**Original Combination:** *Melitaea perse* var. *suffusa*

This name was listed as a Neumoegen "type," but without a description or indication; a *nomen nudum*.

Subtribe *Phyciodina* Higgins, 1981

Bull. Br. Mus. Nat. Hist. (Ent.) 43(3): 81. Type-genus: *Phyciodes* Hübner, [1819], Verz. bekannt. Schmett. (2): 29.

Genus *Tegosa* Higgins, 1981

Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 84, 121. Type-species: *Acraea claudina* Eschscholtz, 1821, *in*: Kotzebue, Endeck. Reise Süd-See 3 (appendix 5): 212, pl. [8], figs. 18a, 18b, by original designation.

729. *Tegosa luka* (Higgins, 1981)

Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 126-127, figs. 87 ♂ D&V, 353 ♂ genitalia dorsal, 354 ♂ genitalia dorsal.

**Original Combination:** *Tegosa anieta luka*

**Type Locality:** "Mexico: Tamazunchale, San Luis Potosi"

**Types:** Holotype in BMNH.

Austin and T. Emmel (1996), *Trop. Lepid.* 7(2): 137, treated this as a species-level taxon.

Genus *Anthanassa* Scudder, 1875

*Bull. Buffalo Soc. Nat. Sci.* 2(4): 239, 268, no. 54. Type-species: *Melitaea texana* W. H. Edwards, 1863, *Proc. Entomol. Soc. Philad.* 2[2]: 81, no. 5, by designation of I.C.Z.N. *Opinion* 839. The same *Opinion* placed *Anthanassa* on the *Official List of Generic Names in Zoology* as name no. 1780.

= *Tritanassa* W. Forbes, 1945

*Entomol. Am. (n.s.)* 24: 171. Type-species: *Eresia drusilla* C. Felder & R. Felder, 1861, *Wien. Entomol. Monatschr.* 5(4): 103-104, no. 79, by original designation.

730. *Anthanassa frisia* (Poey, 1832)

a. *Anthanassa frisia frisia* (Poey, 1832)

*Cent. Lépid. Cuba* (1): [5-6], [no. 2]; pl. [2], figs. [1] ♀ V, [2] ♀ D, [3] ♂ V.

**Original Combination:** *Melitea* [sic!] *Frisia*

**Type Locality:** "Cuba...côte du Nord"

**Types:** Syntype (#7799) in ANSP.

= *gyges* (Hewitson, 1864)

*Ill. exot. Butts.* 3(50): [24], pl. *Eresia* VI, figs. 45 ♂ D, 46 ♂ V.

**Original Combination:** *Eresia Gyges*

**Type Locality:** "Jamaica"

**Types:** Lectotype (#Rh8498) in BMNH, designated by Higgins (1981), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 43(3): 105.

731. *Anthanassa tulcis* (H. Bates, 1864)

*Entomol. Mon. Mag.* 1(4): 82, no. 37.

**Original Combination:** *Melitaea Tulcis*

**Type Locality:** "Guatemala, interior"; lectotype from "Central Valleys."

**Types:** Lectotype (#Rh8513) in BMNH, designated by Higgins (1981), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 43(3): 105.

= *genigueh* (Reakirt, [1866])

*Proc. Entomol. Soc. Philad.* 5[2]: 225, no. 3.

**Original Combination:** *Eresia Genigueh*

**Type Locality:** "Los Angeles, Cal'a." in error.

**Types:** Syntypes possibly in FMNH.

= *archesilea* (R. Felder, 1869)

*Verh. zool.-bot. Ges. Wien* 19: 471, no. 19.

**Original Combination:** *Eresia Archesilea*

**Type Locality:** "Cordoba" [Veracruz, Mexico]

**Types:** Syntypes in NMW.

= *punctata* (W. H. Edwards, 1870)

*Trans. Am. Entomol. Soc.* 3(2): 189, 191-192, no. 5.

**Original Combination:** *Eresia Punctata*

**Type Locality:** "Southern Arizona"; suggested to be "vicinity of Tucson, Arizona" or "Northern Mexico" by F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 424-427. [Tucson is in Pima County]

**Types:** Holotype in CMNH, figured by W. Holland (1898), *Butt. Book*: pl. 17, fig. 39 ♂ D, and F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 425, fig. 23 ♂ D&V.

732. *Anthanassa ptolyca* (H. Bates, 1864)

a. *Anthanassa ptolyca ptolyca* (H. Bates, 1864)

*Entomol. Mon. Mag.* 1(4): 81, no. 34.

**Original Combination:** *Melitaea Ptolema*

**Type Locality:** "Central Valleys of Guatemala"; lectotype from "Chisoy Valley."

**Types:** Lectotype (#Rh8448) in BMNH, designated by Higgins (1981), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 43(3): 97; figured by Godman and Salvin (1882), *Biol. centr.-amer., Lepid. Rhop.* 3(21): pl. 21, figs. 32 ♂ D, 33 ♂ V.

= *carrera* (A. Hall, 1917)

*Entomol.* 50(7) [650]: 162.

**Original Combination:** *Phyciodes carrera*

**Type Locality:** "Amatitlan, Guatemala. 4000 ft."

**Types:** Lectotype in BMNH, designated by Higgins (1981), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 43(3): 97.

733. *Anthanassa texana* (W. H. Edwards, 1863)

a. *Anthanassa texana texana* (W. H. Edwards, 1863)

*Proc. Entomol. Soc. Philad.* 2[2]: 78, 81, no. 5.

**Original Combination:** *Melitaea Texana*

**Type Locality:** "Texas"; probable holotype is from "Neu Braunfels, Comal Co., Texas."

**Types:** Probable holotype in CMNH, figured by W. Holland (1898), *Butt. Book*: pl. 18, fig. 9 ♂ V, and F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 422, fig. 22 ♂ D&V.

I.C.Z.N. *Opinion* 839 placed this name on the *Official List of Specific Names in Zoology* as name no. 2226.

= *smerdis* (Hewitson, 1864)

Ill. exot. Butts. 3(50): [21], pl. Eresia V, figs. 33 ♂ D, 34 ♂ V.

**Original Combination:** *Eresia Smerdis*

**Type Locality:** "Mexico"

**Types:** Lectotype (#Rh8497) in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 100.

b. *Anthanassa texana seminole* (Skinner, 1911)

Entomol. News 22(9): 412.

**Original Combination:** *Eresia texana seminole*

**Type Locality:** "Bainbridge, Georgia" [Decatur County]

**Types:** Syntypes (#7023) in ANSP.

Opler and Krizek (1984), Butts. East Great Plains: 143-144, Watts and Habeck (1991), Trop. Lepid. 2(2): 103-106, and Ross [2005], Holarct. Lepid. 9(1-2): 1-30, suggested that this may be a species-level taxon, as it was treated by Calhoun (1997), Holarct. Lepid. 4(2): 46.

734. *Anthanassa argentea* (Godman & Salvin, 1882)

Biol. centr.-amer. Lepid. Rhop. 1(18): 207, no. 37.

**Original Combination:** *Phyciodes argentea*

**Type Locality:** "Guatemala, Polochic valley...Choctum...Nicaragua, Chontales"; lectotype from "Choctum, Guatemala."

**Types:** Lectotype (#Rh8468) in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 102.

This species was recorded from Texas by Chuah and Cushing (1995), Trop. Lepid. 6(1): 43, figs. 2, 2a.

Genus *Phyciodes* Hübner, [1819]

Verz. bekannt. Schmett. (2): 29. Type-species: *Papilio cocyta* Cramer, 1777, Uidl. Kapellen 2(9): 7, pl. 101, figs. A, B; (16): 148 (index), by designation of Scudder (1872), 4th Ann. Rep. Peabody Acad. Sci. (1871): 46. The arrangement of species in this genus follows Wahlberg *et al.* (2003), Syst. Entomol. 28(2): 257-273.

735. *Phyciodes graphica* (R. Felder, 1869)

Verh. zool.-bot. Ges. Wien 19: 470, no. 17.

**Original Combination:** *Eresia graphica*

**Type Locality:** "Huahuapan" [Haujauapan de León, Oaxaca, Mexico]

**Types:** Syntypes possibly in NMW.

= *boucardi* Godman & Salvin, 1878

Proc. Zool. Soc. Lond. 1878(1): 268, no. 9; discussed and figured by Godman and Salvin, 1882, Biol. centr.-amer. Lepid. Rhop. 1(18): 194; 3(19): pl. 21, figs. 16 ♂ D, 17 ♂ V.

**Original Combination:** *Phyciodes boucardi*

**Type Locality:** "Mexico, Putla" [Oaxaca]

**Types:** Holotype (#Rh8438) in BMNH.

a. *Phyciodes graphica vesta* (W. H. Edwards, 1869)

Trans. Am. Entomol. Soc. 2(4): 371-372; figured by W. H. Edwards (1878), Butts. N. Am. 2(7): pl. Phyciodes 2, figs. 18 ♂ V winter form, 19 ♀ D&V winter form, 20 ♂ D&V summer form, 21 ♀ V summer form.

**Original Combination:** *Melitaea Vesta*

**Type Locality:** "Texas"; neotype from "New Braunfels, Comal Co., Texas."

**Types:** Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 463, fig. 34 ♂ D&V.

= ♀ "hiemalis" W. H. Edwards, 1878

Butts. N. Am. 2(7): [181], pl. Phyciodes 2 figs. 18 ♂ D&V, 19 ♀ V.

**Original Combination:** [*Phyciodes Vesta*] form *Hiemalis*

= ♀ "aestiva" W. H. Edwards, 1878

Butts. N. Am. 2(7): [182], pl. Phyciodes 2 figs. 20 ♂ D&V, 21 ♀ V.

**Original Combination:** [*Phyciodes Vesta*] form *Aestiva*

The two names listed above were proposed in an informal manner, with no type data. F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 463, did not detail these names in his study of W. H. Edwards' types.

736. *Phyciodes picta* (W. H. Edwards, 1865)

a. *Phyciodes picta picta* (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201, no. 1.

**Original Combination:** *Melitaea picta*

**Type Locality:** "Nebraska Territory"; defined as "North Platte, Lincoln County, Nebraska" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 455.

**Types:** Lectotype in FMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 457, fig. 32 ♂ D&V.

Species-genus gender conformation is *pictus*.

b. *Phyciodes picta canace* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 205, 206-207, no. 3.

**Original Combination:** *Phyciodes Canace*

**Type Locality:** "Southern California"; corrected to "Arizona" by W. H. Edwards (1882), Papilio 2(2): 22; neotype from "vicinity of Tucson, Pima Co., Arizona."

**Types:** Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 461, fig. 33 ♂ D&V.

= ♀ "jemezensis" Brehme, 1913

Entomol. News 24(5): 194, pl. 7, figs. 7 ♂ D, 8 ♂ V ("holotype").

**Original Combination:** *Phyciodes picta* ab. *jemezensis*



**Type Locality:** "Jemez Springs, New Mexico" [Sandoval County]

**Types:** Location of "holotype" not known, possibly in USNM.

737. *Phyciodes orseis* W. H. Edwards, 1871

a. *Phyciodes orseis orseis* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 205, 206, no. 2.

**Original Combination:** *Phyciodes Orseis*

**Type Locality:** "Mt. St. Helena, Napa Co., California"

**Types:** Lectotype (#4482) in AMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 450, fig. 29 ♂ D&V.

= ♀ "edwardsi" Gunder, 1927

Entomol. News 38(5): 135, no. 5, pl. 2, fig. 5 ♀ D ("holotype").

**Original Combination:** *Phyciodes orseis edwardsi* ♀ nov. tr. form

**Type Locality:** "California"

**Types:** "Holotype" in AMNH (USNM stated in original description).

b. *Phyciodes orseis herlani* Bauer, 1975

In: Howe, Butts. N. Am.: 148, no. 10b, pl. 45, figs. 9 ♂ D&V (holotype), 10 ♀ D&V.

**Original Combination:** [*Phyciodes (Phyciodes) orseis*] *herlani*

**Type Locality:** "Glenbrook Creek, Douglas County, Nevada, at an elevation of about 7000 feet"

**Types:** Holotype in Bauer collection; a "paratype" in NVMC.

738. *Phyciodes pallida* (W. H. Edwards, 1864)

a. *Phyciodes pallida pallida* (W. H. Edwards, 1864)

Proc. Entomol. Soc. Philad. 2(4): 501, 505, no. 6.

**Original Combination:** *Melitaea Pallida*

**Type Locality:** "Texas. Kansas"; neotype from "Flagstaff Mt., Boulder Colo." [Boulder County, Colorado]

**Types:** Neotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 448, fig. 28 ♀ D&V.

Species-genus gender conformation is *pallidus*.

= *mata* (Reakirt, 1866)

Proc. Entomol. Soc. Philad. 6(1): 142.

**Original Combination:** *Eresia mata*

**Type Locality:** "Rocky Mountains, Colorado Terr."; defined as "Flagstaff Mt., Boulder Colo." by Scott (1994), Papilio (n.s.) 7: 11. [Boulder County]

**Types:** Holotype in FMNH; figured by Strecker (1874), Lepid. Rhop. Het. (8): pl. 8, fig. 11 ♀ D&V.

b. *Phyciodes pallida barnesi* Skinner, 1897

Can. Entomol. 29(6): 155.

**Original Combination:** *Phyciodes Barnesi*

**Type Locality:** "Glenwood Springs, Colo." [Garfield County, Colorado]

**Types:** Lectotype (#7037) in ANSP, designated by W. Holland (1931), Butt. Book (rev. ed.): 138, pl. 18, fig. 5 ♂ D, as "type."

739. *Phyciodes mylitta* (W. H. Edwards, 1861)

a. *Phyciodes mylitta mylitta* (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13[6]: 160-161, no. 1.

**Original Combination:** *Melitaea mylitta*

**Type Locality:** "Texas; Kansas; California"; neotype from "Stanyan Hill, San Francisco, California." [San Francisco County]

**Types:** Neotype in CAS, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 442, fig. 27 ♂ D&V.

= ♀ *collina* (Behr, 1863)

Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 86, no. 2.

**Original Combination:** *M[elitaea]. collina*

**Type Locality:** "California" implied from the title of the paper, "in the vicinity of San Francisco, and the hills of Contra Costa, especially on the grassy valleys, along creeks, and on hillsides" from the description; neotype from "Presidio, San Francisco, San Francisco County, California."

**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 100-101, figs. 34 ♂ D, 35 ♂ V.

Preoccupied by *Melitaea collina* Lederer, 1861, Wien. entomol. Monatschr. 5(5): 148, pl. 1, figs. 4, 5.

= *epula* (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 55, no. 40.

**Original Combination:** *Melitaea Epula*

**Type Locality:** "De l'Interieur de la Californie"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 31.

**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 31, figs. 234 ♀ D, 235 ♀ V. Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 88, designated a lectotype in the in BMNH. Presumably, this was the specimen figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): 80, pl. 259, fig. 2176 ♂ D&V, and is not a syntype (Code Article 74.2).

= ♀ "collinsi" Gunder, 1930

Bull. South. Calif. Acad. Sci. 29(2): 62, no. 75.

**Original Combination:** *Phyciodes mylitta* tr. f. *collinsi*

**Type Locality:** "Collins Ranch, Voltair, California" [San Joaquin County]

**Types:** "Holotype" in AMNH; figured by J. A. Comstock (1927), Butts. Calif.: pl. 39, fig. 16 ♂ D.

= ♀ "macyi" Fender, 1930

Entomol. News 41(6): 182.

**Original Combination:** *Phyciodes mylitta* n. aberr. *macyi*

**Type Locality:** "McMinnville, Oregon" [Yamhill County]

**Types:** Location of "holotype" not known.

- b. *Phyciodes mylitta arizonensis* Bauer, 1975

*In:* Howe, Butts. N. Am.: 149-150, no 12b, pl. 43, fig. 8 ♂ D&V.

**Original Combination:** [*Phyciodes (Phyciodes) mylitta*] *arizonensis*

**Type Locality:** Not stated; figured syntype from "Hannagan Meadows, White Mts., Greenlee Co., Ariz." [Arizona]

**Types:** Syntypes in Bauer collection.

740. *Phyciodes phaon* (W. H. Edwards, 1864)

- a. *Phyciodes phaon phaon* (W. H. Edwards, 1864)

*Proc. Entomol. Soc. Philad.* 2[4]: 501, 505-506, no. 7; figured by W. H. Edwards (1878), Butts. N. Am. 2(7): pl. *Phyciodes* 2, figs. 14 ♂ V, 15 ♀ V, 16 ♂ D&V, 17 ♀ D&V.

**Original Combination:** *Melitaea Phaon*

**Type Locality:** "St. Simons Island, Georgia; Northern Georgia"; neotype from "San Simon Island, Glynn Co., Georgia."

**Types:** Neotype in CMNH, designated by F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 437, fig. 26 ♂ D&V.

This taxon was figured by Hübner, [1810], *Samml. exot. Schmett.* 1: pl. [41], figs. 3 ♀ D, 4 ♀ V (as *gorgone*).

= ♀ "hiemalis" W. H. Edwards, 1878

Butts. N. Am. 2(7): [179], pl. *Phyciodes* 2, figs. 14 ♂ V winter form, 15 ♀ V winter form.

**Original Combination:** [*Phyciodes Phaon*] form *Hiemalis*

= ♀ "aestiva" W. H. Edwards, 1878

Butts. N. Am. 2(7): [179], pl. *Phyciodes* 2, figs. 16 ♂ D&V, 17 ♀ D&V.

**Original Combination:** [*Phyciodes Phaon*] form *Aestiva*

The two names listed above were proposed in an informal manner with no type data. F. Brown (1966), *Trans. Am. Entomol. Soc.* 92(3): 437, did not detail these names in his study of W. H. Edwards' types.

= ♀ "nox" (Gunder, 1928)

*Can. Entomol.* 60(7): 167, pl. B, figs. 17 ♂ D, 17a ♂ V ("holotype").

**Original Combination:** *Phyciodes gorgone* tr. f. *nox*

**Type Locality:** "Brownsville, Texas" [Cameron County]

**Types:** "Holotype" in USNM.

- b. *Phyciodes phaon jalapeno* Scott, 1998

*Papilio* (n.s.) 10: 30, figs. 40 ♂ D (holotype), 41 ♀ D.

**Original Combination:** *Phyciodes (Phyciodes) phaon jalapeno*

**Type Locality:** "Mesa, Maricopa County Arizona"

**Types:** Holotype in BMNH.

= ♀ "thornei" Gunder, 1934

*Can. Entomol.* 66(6): 130-131.

**Original Combination:** *Phyciodes gorgone* tr. f. *thornei*

**Type Locality:** "Chula Vista, San Diego Co., Calif." [California]

**Types:** "Holotype" in AMNH.

741. *Phyciodes tharos* (Drury, 1773)

- a. *Phyciodes tharos tharos* (Drury, 1773)

*Illustr. Nat. Hist.* 1: 43-44, pl. 21, figs. 5 ♂ D, 6 ♂ V (1770); 2: index (1773, name given).

**Original Combination:** [*Papilio*] *Tharos-Dan. Fest.*

**Type Locality:** "New York"; neotype from "Van Courtlandt Park, New York City." [Bronx County]

**Types:** Type(s) may be in MAMU, but are probably lost. Neotype in AMNH, designated by Scott (1994), *Papilio* (n.s.) 7: 28, fig. 90 ♂ D.

= *euclea* (Bergsträsser, [1780])

*Nom. Ins.* 4: 23-24, pl. 79, figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** [*Papilio*] *Euclea*

**Type Locality:** "in England"; stated to be "North America" by Higgins (1981), *Bull. Brit. Mus. (Nat. Hist.) Entomol.* 43(3): 85; neotype from "New York City and vicinity." [New York]

**Types:** Location of type(s) not known, probably lost. Neotype in AMNH, designated by Scott (1994), *Papilio* (n.s.) 7: 28, fig. 97 ♂ D.

= *tharossa* (Godart, 1819)

*In:* *Ency. méth.* 9(Ins.) (1): (256), 289-290, no. 61; cited *Papilio cocyta* Cramer, 1777, *Uitl. Kapellen* 2(9): pl. 101, figs. A, B, C, *Papilio tharos* Drury, 1773, *Illustr. Nat. Hist.* 1: 43-44, pl. 21, figs. 5, 6, and *Papilio euclea* (sensu Herbst (1780), *in:* Jablonsky, *Natursyst. Ins.*, Schmett. 10: pl. 274, figs. 9, 10).

**Original Combination:** *Argynnis Tharossa*

**Type Locality:** "dans l'Amérique septentrionale, & particulièrement dans l'Etat de New York" [New York]

**Types:** Syntype in RSM. Grimshaw (1897), *Trans. R. Soc. Edinburgh* 39, part I(1): 4, noted a "type" in the Dufresne collection in Edinburgh.

This name might be an unjustified emendation of *tharos* Drury, [1773].

= *packardii* Saunders, 1869

*In:* Packard, *Guide Study Ins.*: 256-257.

**Original Combination:** *Melitaea Packardii*

**Type Locality:** "near Grimsby, Ontario County, Canada"

**Types:** Location of type(s) not known, possibly in CNC; figured by W. H. Edwards (1878), Butts. N. Am. 2(7): pl. *Phyciodes*



1, 11 ♀ V var. D, 12 ♂ V var. D.

= *distincta* Bauer, 1975

In: Howe, Butts. N. Am.: 144, no. 6b.

**Original Combination:** [*Phyciodes* (*Phyciodes*) *tharos*] *distincta*

**Type Locality:** "Calexico, Imperial County, California"

**Types:** Location of holotype not known.

b. *Phyciodes tharos orantain* Scott, 1998

Papilio (n.s.) 10: 8-10, no. 4C, figs. 1 antennal club, 3 ♂ D (holotype), 4 ♀ D.

**Original Combination:** *Phyciodes* (*Phyciodes*) *tharos orantain*

**Type Locality:** "Barr Lake, Adams County Colorado (the privately-owned cattle pastures and ditches below the dam of this reservoir)"

**Types:** Holotype in BMNH.

c. *Phyciodes tharos riocolorado* Scott, 1992

Papilio (n.s.) 6: 44; figured by Scott (1994), Papilio (n.s.) 7: figs. 1 dorsal view of gnathos and tegumen, 18 anterior edge of juxta, 23 right lateral view of papilla analis, 26 ductus bursa and bursa copulatrix, 82 ♂ V, 83 ♂ D, 84 ♀ D, 85 ♀ V.

**Original Combination:** *P[hyciodes] tharos riocolorado*

**Type Locality:** "wetland at Moab, Grand Co., Utah"

**Types:** Holotype in LACM.

742. *Phyciodes cocyta* (Cramer, 1777)

a. *Phyciodes cocyta cocyta* (Cramer, 1777)

Uitl. Kapellen 2(9): 7, pl. 101, figs. A ♂ D, B ♂ V, [C ♀ V] (not the same species); (16): 148 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Phaler[ata]. Cocyta*

**Type Locality:** Not stated for figs. A and B, "Surinamen" "Suriname" for fig. C; neotype from "Black Rock, Cape Breton, Nova Scotia."

**Types:** Neotype in AMNH, designated by Scott (1994), Papilio (n.s.) 7: 36, fig. 111 ♂ D.

= *†morpheus* (Fabricius, 1775)

Syst. Entomol.: 530, no. 370.

**Original Combination:** *P[apilio]. P[lebejus]. R[uralis]. Morpheus*

**Type Locality:** "America boreali"

**Types:** Type(s) probably lost.

Preoccupied by *Papilio morpheus* Pallas, 1771, Reise verschied. Prov. Russisch. Reichs 1, Anhang: 471, no. 64. Fabricius (1793), Entomol. Syst. 3(1): 155-156, no. 479, cited this name in association with *Papilio cocyta* Cramer, 1777.

= *arctica* dos Passos, 1935

Can. Entomol. 67(4): 87.

**Original Combination:** *Phyciodes tharos arctica*

**Type Locality:** "Port au Port, Table Mountain, Newfoundland" [Newfoundland and Labrador]

**Types:** Holotype in AMNH.

b. *Phyciodes cocyta selenis* (W. Kirby, 1837)

In: Richardson, Fauna Bor.-Am. [4]: 289, no. 1.

**Original Combination:** *Melitaea Selenis*

**Type Locality:** "North America"; defined as "Cumberland House Sask." by Scott (1994), Papilio (n.s.) 7: 35; neotype from "Grosky Rd., The Pas, Manitoba."

**Types:** Neotype in BMNH, designated by Scott (2006), Papilio (n.s.) 13: 15; figured by Scott (2006), Papilio (n.s.) 12: pl. 5, 4th row right ♂ D, 5th row right ♂ V.

= *marcia* (W. H. Edwards, 1868)

Trans. Am. Entomol. Soc. 2(2): 207-208.

**Original Combination:** *Melitaea Marcia*

**Type Locality:** "New York to Louisiana...Kanawha River, W. Va."; defined as "Hunter, Greene Co., New York" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 432; lectotype from "Coalburgh, Kanawha Valley, West Virginia." [Kanawha County]

**Types:** Lectotype in CMNH, designated by Gatrell (2004), Tax. Rep. Int. Lepid. Surv. 4(8): 9, fig. 43 ♂ D&V. A previous "lectotype" designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 433, fig. 25 ♂ D&V, is invalid since it is not a syntype (Code Article 74.2).

= *†reaghi* Reiff, 1913

Entomol. News 24(7): 305, pl. 10, figs. 1 ♀ D, 2 ♀ V ("holotype").

**Original Combination:** *Phyciodes tharos* form nov. *reaghi*

**Type Locality:** "Franklin, Mass." [Norfolk County, Massachusetts]

**Types:** "Holotype" in USNM.

= *†herse* G. Hall, 1924

J. N. Y. Entomol. Soc. 32(2): 110.

**Original Combination:** *Phyciodes tharos pascoensis* form vern. *herse*

**Type Locality:** "Taft, British Columbia"

**Types:** "Holotype" in AMNH.

= *†nigrescens* G. Hall, 1924

J. N. Y. Entomol. Soc. 32(2): 111.

**Original Combination:** *Phyciodes tharos pascoensis* f. ab. *nigrescens*

**Type Locality:** "Taft, B. C." [British Columbia]



- Types:** "Holotype" in AMNH.  
 = ♀"dyari" Gunder, 1928  
 Can. Entomol. 60(7): 167, pl. B, fig. 18 ♂ V ("holotype").  
**Original Combination:** *Phyciodes tharos* tr. f. *dyari*  
**Type Locality:** "Webster, N. H." [Merrimack County, New Hampshire]  
**Types:** "Holotype" in AMNH.  
 = ♀"mcdunnoughi" Gunder, 1928  
 Can. Entomol. 60(7): 167, pl. B, figs. 19 ♀ D, 19a ♀ V ("holotype").  
**Original Combination:** *Phyciodes campestris* tr. f. *mcdunnoughi*  
**Type Locality:** "Olds ?, T. N. W." [Alberta]  
**Types:** "Holotype" in CNC.  
 dos Passos (1964), Mem. Lepid. Soc. (1): 82, spelled this name *macdunnoughi*, representing an unjustified emendation.
- c. ***Phyciodes cocyta diminutor*** Scott, 1998  
 Papilio (n.s.) 10: 13-14, figs. 5 ♂ D (holotype), 6 ♀ D, 7 ♂ D, 8 ♂ D, 9 ♂ D, 10 ♀ D, 11 ♀ D, 12 ♂ D, 13 ♂ D, 14 ♂ D, 15 ♀ D, 16 ♀ D, 17 ♀ D.  
**Original Combination:** *Phyciodes (Phyciodes) cocyta diminutor*  
**Type Locality:** "NE Conger, Freeborn County Minnesota"  
**Types:** Holotype in BMNH.
- d. ***Phyciodes cocyta incognitus*** Gatrell, 2004  
 Tax. Rep. Int. Lepid. Surv. 4(8): 17-18, figs. 1, 2, 5, 6 (left larval head capsules), 10, 14 (mature larva), 27 ♂ V, 28 ♀ V, 30 ♂ D (holotype), 31 ♀ D, 32 ♂ D&V, 33 ♀ D&V, 35 ♂ V (holotype), 36 ♀ V, 38 ♂ D&V, G, H, J, K ♂ genitalia, N, O, P (pupa).  
**Original Combination:** *Phyciodes incognitus*  
**Type Locality:** "Georgia: Union County, Duncan Ridge Road"  
**Types:** Holotype in MGCL.
- e. ***Phyciodes cocyta pascoensis*** W. G. Wright, 1905  
 Butts. W. Coast: 55, no. 198; 165, no. 198, pl. 21, figs. 198 ♂ D (lectotype), 198a ♂ V.  
**Original Combination:** [*Phyciodes Nycteis* var.] *Pascoensis*; *Phyciodes Pascoensis* n. s.  
**Type Locality:** "Eastern Oregon"; "Pasco, Franklin County, Washington" implied from the formation of the name.  
**Types:** Lectotype (#4308) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 23.
- f. ***Phyciodes cocyta arenacolor*** Austin, 1998  
 Syst. W. N. Am. Butts. (46): 577, figs. 17 ♂ D, 18 ♂ V (holotype); 19 ♀ D, 20 ♀ V.  
**Original Combination:** *Phyciodes pascoensis arenacolor*  
**Type Locality:** "Nevada: White Pine County; Steptoe Valley, Warm Springs, 1798 m, T21N R63E S25 on USGS Monte Neva Hot Springs, Nev. quadrangle, 7.5' series"  
**Types:** Holotype in MGCL.
743. ***Phyciodes batesii*** (Reakirt, [1866])
- a. ***Phyciodes batesii anasazi*** Scott, 1994  
 Papilio (n.s.) 7: 61-63, no. 6D, figs. 161 ♂ V, 162 ♂ D, 163 ♀ D, 164 ♀ V, 165 ♂ V, 166 ♂ D, 167 ♀ D, 168 ♀ V, 169 ♂ V, 170 ♂ D, 171 ♀ D, 172 ♀ V.  
**Original Combination:** *Phyciodes (Phyciodes) batesii anasazi*  
**Type Locality:** "near Gateway, Mesa Co. Colo." [Colorado]  
**Types:** Holotype in BMNH.
- b. ***Phyciodes batesii apsaalooke*** Scott, 1994  
 Papilio (n.s.) 7: 56-58, no. 6C, figs. 19 ventral view of saccus, 149 ♂ V, 150 ♂ D, 151 ♀ D, 152 ♀ V, 153 ♂ V, 154 ♂ D, 155 ♀ D, 156 ♀ V, 157 ♂ V, 158 ♂ D, 159 ♀ D, 160 ♀ V.  
**Original Combination:** *Phyciodes (Phyciodes) batesii apsaalooke*  
**Type Locality:** "W Hidden Basin Cgd., Bighorn Co. Wyo." [Wyoming]  
**Types:** Holotype in BMNH.
- c. ***Phyciodes batesii lakota*** Scott, 1994  
 Papilio (n.s.) 7: 50-52, no. 6B, figs. 137 ♂ V, 138 ♂ D, 139 ♀ D, 140 ♀ V, 141 ♂ V, 142 ♂ D, 143 ♀ D, 144 ♀ V, 145 ♂ V, 146 ♂ D, 147 ♀ D, 148 ♀ V, 173 ♂ V, 174 ♂ V, 175 ♂ V, 176 ♂ D, 177 ♂ D.  
**Original Combination:** *Phyciodes (Phyciodes) batesii lakota*  
**Type Locality:** "Pine Ridge, Sioux Co. Neb." [Nebraska]  
**Types:** Holotype in BMNH.
- d. ***Phyciodes batesii saskatchewan*** Scott, 2006  
 Papilio (n.s.) 13: 22-23; figured by Scott (2006), Papilio (n.s.) 12: 6th row right ♂ D&V (holotype).  
**Original Combination:** *Phyciodes batesii saskatchewan*  
**Type Locality:** "Halfway Lake (N of Edmonton near Clyde) Alberta"  
**Types:** Holotype in BMNH.
- e. ***Phyciodes batesii batesii*** (Reakirt, [1866])  
 Proc. Entomol. Soc. Philad. 5[2]: 226, no. 4.  
**Original Combination:** *Eresia Batesii*  
**Type Locality:** "Winchester, Va.; Gloucester, N. J." Klots (1951), Field Guide Butts. N. Am.: 100, stated that the type locality is "Gloucester, New Jersey"; corrected to "Winchester Va." by Scott (1994), Papilio (n.s.) 7: 44, since the only extant syntype is from Winchester. [Frederick County, Virginia]  
**Types:** Syntype in FMNH, figured by Gatrell (1998), Tax. Rep. Int. Lepid. Surv. 1(3): fig. 14 ♂ D&V.

- = *harperi* Gunder, 1932  
 Can. Entomol. 64(12): 283-284.  
**Original Combination:** *Phyciodes batesii* tr. f. *harperi*  
**Type Locality:** "McCreary, Manitoba, Canada"  
**Types:** "Holotype" in AMNH.

- f. *Phyciodes batesii maconensis* Gatrell, 1998  
 Tax. Rep. Int. Lepid. Surv. 1(3): 4-5, figs. 11 ♂ D&V (holotype), 12 ♀ D&V.  
**Original Combination:** *Phyciodes batesii maconensis*  
**Type Locality:** "Jones Knob, 4100', Macon County, North Carolina"  
**Types:** Holotype in MGCL.

744. *Phyciodes pulchella* (Boisduval, 1852)

The use of this name over *campestris* (Behr, 1863) and *pratensis* (Behr, 1863), follows Scott (1994), *Papilio* (n.s.) 7: 65-73, reiterated by Kondla and C. Guppy (2002), J. Lepid. Soc. 56(3): 171-172. While the various aspects of the applicability of this name were discussed by these authors, some dispute the issue (e.g., Layberry, *et al.* (1998), Butts. Can.: 191), and a petition to the I.C.Z.N. may be needed to resolve the matter.

- a. *Phyciodes pulchella tutchone* Scott, 1994  
*Papilio* (n.s.) 7: 75, no. 7B, figs. 189 ♂ D, 190 ♂ D, 191 ♂ V, 192 ♀ D.  
**Original Combination:** *Phyciodes* (*Phyciodes*) *pulchella tutchone*  
**Type Locality:** "Nickel Creek, 4000 feet, SW Yukon"  
**Types:** Holotype in BMNH.
- b. *Phyciodes pulchella owimba* Scott, 1998  
*Papilio* (n.s.) 10: 26-27, figs. 36 ♂ D (holotype), 37 ♀ D.  
**Original Combination:** *Phyciodes* (*Phyciodes*) *pulchella owimba*  
**Type Locality:** "Pattee Canyon, 3500', Missoula County, Montana"  
**Types:** Holotype in BMNH.
- c. *Phyciodes pulchella pulchella* (Boisduval, 1852)  
 Ann. Soc. Entomol. Fr. (2) 10(2): 306, no. 49.  
**Original Combination:** *Melitaea pulchella*  
**Type Locality:** "dans une grande partie de la Californie"; redefined as "dans le centre de la Californie" by Boisduval (1868), Annls. Soc. Entomol. Belg. 12: 20, no. 50; defined as "San Francisco, California" by Scott (1994), *Papilio* (n.s.) 7: 73. [San Francisco County]  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 18, figs. 102 ♂ D, 103 ♂ V. This specimen was earlier designated as neotype by Scott (1994), *Papilio* (n.s.) 7: 72, figs. 179 ♂ D, 180 ♂ V, but it appears to be a syntype.  
 Species-genus gender conformation is *pulchellus*.
- = *pratensis* (Behr, 1863)  
 Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 86, no. 4.  
**Original Combination:** *M[elitaea]. pratensis*  
**Type Locality:** "California" implied from the title of the paper, "on grassy hillsides...in some localities near San Francisco" from the description; neotype from "Old Cemetery, San Francisco, San Francisco County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 99, figs. 25 ♂ D, 26 ♂ V.
- = *campestris* (Behr, 1863)  
 Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 86, no. 3.  
**Original Combination:** *M[elitaea]. campestris*  
**Type Locality:** "California" implied from the title of the paper, "especially on marshy places...peculiar to the lower regions" from the description; neotype from "Old Cemetery, San Francisco, San Francisco County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 100, figs. 28 ♀ D, 29 ♀ V.  
 As first reviser, precedence was given to *pratensis* over *campestris* by W. H. Edwards [1873], Synop. N. A. Butts.: 18, no. 15.
- d. *Phyciodes pulchella deltarufa* Scott, 1998  
*Papilio* (n.s.) 10: 25-26, no. 7B, figs. 34 ♂ D (holotype), 35 ♀ D.  
**Original Combination:** *Phyciodes* (*Phyciodes*) *pulchella deltarufa*  
**Type Locality:** "Willow Slough just north of Davis, Yolo County California"  
**Types:** Holotype in BMNH.
- e. *Phyciodes pulchella montana* (Behr, 1863)  
 Proc. Calif. Acad. Sci. 3(1) ([sig.]6): 85-86, no. 1.  
**Original Combination:** *M[elitaea]. montana*  
**Type Locality:** "California" implied from the title of the paper, "in the neighborhood of Los Angeles...at the headwaters of the Tuolumne River...from Yosemite Valley" from the description; neotype from "Tuolumne Meadows, Tuolumne County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (6): 100, figs. 31 ♂ D, 32 ♂ V.
- = *orsa* (Boisduval, 1869)  
 Annls. Soc. Entomol. Belg. 12: 55, no. 41; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 259, fig. 2178 ♂ D&V (lectotype), 2179 ♀ D&V.  
**Original Combination:** *Melitaea Orsa*



- Type Locality:** "Interieur de la Californie"; defined as "Gold Lake, Sierra County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32.
- Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 32, figs. 237 ♂ D, 238 ♂ V. A "lectotype" in BMNH, designated by Higgins (1981), Bull. Brit. Mus. (Nat. Hist.) Entomol. 43(3): 88, could not be located by J. Emmel *et al.* (1998), *ibid.*, and is probably not a syntype (Code Article 74.2).
- f. ***Phyciodes pulchella vallis*** Austin, 1998  
Syst. W. N. Am. Butts. (61): 740-741, figs. 1 second row left ♂ D, 2 second row left ♂ V (holotype), 1 second row right ♀ D, 2 second row right ♀ V.  
**Original Combination:** *Phyciodes pulchellus vallis*  
**Type Locality:** "Nevada: Lyon County; Sweetwater Mountains, Nevada state route 338, Garden Canyon, 1820 m, T9N R24E S36 on USGS Pine Grove Hills, Nev. and Desert Creek Peak, Nev. 15' quadrangles"  
**Types:** Holotype in MGCL.
- g. ***Phyciodes pulchella inornatus*** Austin, 1998  
Syst. W. N. Am. Butts. (61): 739, figs. 1 top left ♂ D, 2 top left ♂ V (holotype); 1 top right ♀ D, 2 top right ♀ V.  
**Original Combination:** *Phyciodes pulchellus inornatus*  
**Type Locality:** "Nevada: Pershing County; Sonoma Range, Clearwater Canyon, Clear Creek, 2.9 road miles east of Grass Valley Road, 1500 m, T33N R38E S13 on USGS Leach Hot Springs, Nev. 15' quadrangle"  
**Types:** Holotype in MGCL.
- h. ***Phyciodes pulchella shoshoni*** Scott, 1994  
Papilio (n.s.) 7: 76, no. 7D, figs. 193 ♂ V, 194 ♂ D, 195 ♀ D, 196 ♀ V.  
**Original Combination:** *Phyciodes (Phyciodes) pulchella shoshoni*  
**Type Locality:** "along Humboldt River near Battle Mtn., Elko Co., Nev." [Nevada]  
**Types:** Holotype in BMNH.
- i. ***Phyciodes pulchella camillus*** W. H. Edwards, 1871  
Trans. Am. Entomol. Soc. 3(3/4): 266, 268-269, no. 4.  
**Original Combination:** *Phyciodes Camillus*  
**Type Locality:** "Colorado"; defined as "Fairplay, Park County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 451.  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 453, fig. 30 ♂ D&V.  
= *emissa* W. H. Edwards, 1871  
Trans. Am. Entomol. Soc. 3(3/4): 266, 269-270, no. 5.  
**Original Combination:** *Phyciodes Emissa*  
**Type Locality:** "Colorado"; defined as "Denver, Denver County, Colorado" by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 451.  
**Types:** Lectotype in CMNH, designated by F. Brown (1966), Trans. Am. Entomol. Soc. 92(3): 455, fig. 31 ♀ D&V.  
= # "rohweri" T. Cockerell, 1913  
Entomol. 46(11)[606]: 308, fig. 1 ("holotype").  
**Original Combination:** [*Phyciodes camillus*] Ab. *rohweri*  
**Type Locality:** "North Boulder Creek, Boulder County, Colorado, in the Canadian Zone"  
**Types:** "Holotype" in USNM.  
= # "tristis" T. Cockerell, 1913  
Entomol. 46(11)[606]: 308, fig. 2 ("holotype").  
**Original Combination:** [*Phyciodes camillus*] Ab. *tristis*  
**Type Locality:** "Jim Creek, Boulder County, Colorado"  
**Types:** "Holotype" in USNM.
- j. ***Phyciodes pulchella sacramento*** Scott, 2006  
Papilio (n.s.) 13: 27; figured by Scott (2006), Papilio (n.s.) 12: pl 4, 3rd row right ♂ D&V (holotype).  
**Original Combination:** *Phyciodes pulchella sacramento*  
**Type Locality:** "1 mi. E Cloudcroft, Sacramento Mts., Otero Co. New Mex." [New Mexico]  
**Types:** Holotype in BMNH.

#### Subfamily Charaxinae Guenée, 1865

In: Vinson, Voy. Madag. Annex F: 28 (as "Charaxidae"). Type-genus: *Charaxes* Ochsenheimer, 1816, Schmett. Europa 4: 18. *Opinion* 577 placed *Charaxes* on the *Official List of Generic Names in Zoology* as name no. 1386. The same *Opinion* placed Charaxinae Doherty, 1886, J. asiat. Soc. Bengal 55, Pt. 11(2): 109, on the *Official List of Family-group Names in Zoology* as name no. 284, Charaxiids Wheeler, 1903, Butts. Switz.: 99, 149, and Charaxidinae Aurivillius, 1911, in: Seitz, Grossschmett. Erde 13(107): 122 (as incorrect subsequent spellings) on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as names no. 321 and 322, respectively. The family-group as proposed by Guenée antedates Doherty's name and requires an application to the I.C.Z.N. to correct the *Official List*.

#### Tribe Anaeini Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 515, 555, 557 (as "Anaeidi"). Type-genus: *Anaea* Hübner, [1819], Verz. bekannt. Schmett. (3): 48.

#### Genus *Anaea* Hübner, [1819]

Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio troglodyta* Fabricius, 1775, Syst. Entomol.: 502, no. 250, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 111, no. 71.



= ‡*Pyrrhanaea* Röber, [1888]

In: Schatz, Exot. Schmett. 2(4): 170, pl. 28. Type-species: *Papilio troglodyta* Fabricius, 1775, Syst. Entomol.: 502, no. 250, by monotypy. A junior objective synonym of *Anaea* Hübner, [1819].

\*745. *Anaea troglodyta* (Fabricius, 1775)

Syst. Entomol.: 502, no. 250.

**Original Combination:** *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Troglodyta*

**Type Locality:** "America. Mus. D. Hunter"; defined as "Hispaniola" by F. Johnson and W. Comstock (1961), J. N. Y. Entomol. Soc. 49(4): 312.

**Types:** Lectotype in ZMUC, designated by Wetherbee (1991), Two Cent. Expl. Hispaniola Butts.: 14.

a. *Anaea troglodyta floralis* F. Johnson & W. Comstock, 1941

J. N. Y. Entomol. Soc. 49(4): 307-308, figs. 10, 11 ♂ genitalia; cited *Anaea portia* (sensu Röber (1916), in: Seitz, Grossschmett. Erde 5(255): pl. 117d).

**Original Combination:** *Anaea aidea floralis*

**Type Locality:** "Florida...Florida City" [Miami-Dade County]

**Types:** Holotype in AMNH.

= ‡"floraesta" F. Johnson & W. Comstock, 1941

J. N. Y. Entomol. Soc. 49(4): 309.

**Original Combination:** *Anaea aidea floralis* summer form *floraesta*

**Type Locality:** "Florida...Brickell Hammock, Miami" [Miami-Dade County]

**Types:** "Holotype" in AMNH.

746. *Anaea aidea* (Guérin-Méneville, [1844])

Icon. Règne Anim. Cuvier (Ins.) 3: 478.

**Original Combination:** *Nymphalis* (*Thymetes*?) *Aidea*

**Type Locality:** "baie de Campeche, ou elle a été prise par M Perbosc á plus d'une lieue en mer, sur son bâtiment" [The Bay of Campeche abuts the states of Veracruz, Tabasco and Campeche, Mexico]

**Types:** Syntype(s) possibly in MNHP or BMNH.

= *morrisonii* (W. H. Edwards, 1883)

Can. Entomol. 15(2): 35-36.

**Original Combination:** *Paphia Morrisonii*

**Type Locality:** "Western Texas...Mt. Graham, Arizona"; lectotype from "Mount Graham, Cochise County [sic], Arizona." [Graham County]

**Types:** Lectotype in CMNH, designated by F. Johnson and W. Comstock (1961), J. N. Y. Entomol. Soc. 49(4): 306-307; figured by F. Brown (1967), Trans. Am. Entomol. Soc. 93(3): 391, fig. 23 ♀ D&V.

= *appiciata* Röber, 1916

In: Seitz, Grossschmett. Erde 5(248): 582.

**Original Combination:** [*Anaea troglodyta*] *appiciata*

**Type Locality:** "Mexiko"

**Types:** Lectotype in ZMHB, designated by Lamas (1995), Shilap Revta Lepid. 23(92): 354.

747. *Anaea andria* Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 248, no. 59; cited *Paphia glycerium* (sensu C. Riley (1877), Am. Entomol. 2(4): 121-123, figs. 82 ♂ D, fig. 83 ♀ D, and W. H. Edwards (1871), Butts. N. Am. [1](7): pl. Paphia 1, figs. 1-6).

**Original Combination:** [*Anaea*] *Andria*

**Type Locality:** "Mississippi Valley, westward to Great Plains; Texas"; C. Riley (1877) *ibid.*, noted "Missouri, Texas, and Illinois," and derived material for rearing and description from "Woodburn, Ills...Sedalia, Mo."; W. H. Edwards (1871), stated "prairies of Illinois, Missouri, Kansas and Texas...Sedalia, Mo."; F. Johnson and W. Comstock (1941), J. N. Y. Entomol. Soc. 49(4): 393, suggested that W. H. Edwards' figures are probably from "Illinois or Missouri."

**Types:** Syntypes may be in CMNH (W. H. Edwards collection), but might be lost.

= *ops* (H. Druce, 1877)

Proc. Zool. Soc. Lond. 1877(3): 633.

**Original Combination:** *Paphia ops*

**Type Locality:** "Texas"

**Types:** Holotype (#10370) in BMNH.

Described in text as a "form of *P. aidea*," but clearly proposed as "sp. n."

= ‡"andriaesta" F. Johnson & W. Comstock, 1941

J. N. Y. Entomol. Soc. 49(4): 303-304.

**Original Combination:** *Anaea andria* summer form *andriaesta*

**Type Locality:** "Alexandria, Louisiana" [Rapides Parish]

**Types:** "Holotype" in AMNH.

‡"morrisonii" Scott, 1986

Butts. N. Am.: 253, no. 136.

**Original Combination:** [*Anaea andria*] fall...form *morrisonii*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

Genus *Memphis* Hübner, [1819]

Verz. bekannt. Schmett. (3): 48. Type-species: *Papilio odilia* Stoll, 1780, Uitl. Kapellen 4(28): 79, pl. 329, figs. C, D; (34): 251 (index) (=

*Papilio polycarmes* Fabricius, 1775, Syst. Entomol. 484, no. 181, by original designation. As first reviser, W. F. Kirby (1871), Syn. Cat. diurn. Lepid.: 276, accorded precedence to *Anaea* over *Memphis*.

- = ‡*Corycia* Hübner, [1825]  
Samml. exot. Schmett. 2: pl. [55]. Type-species: *Corycia appias* Hübner, [1825], Samml. exot. Schmett. 2: pl. [55], figs. 1, 2, 3, 4, by monotypy. Preoccupied by *Corycia* Hübner, [1823], Verz. bekannt. Schmett. (17): 265.
- = *Cymatogramma* E. Doubleday, [1849]  
In: Gen. diurn. Lepid. (2): pl. 49, fig. 4; (2)(38): 316 (Westwood, 1850). Type-species: *Cymatogramma echemus* E. Doubleday, [1849], in: Gen. diurn. Lepid. (2): pl. 49, fig. 4, by monotypy.
- = *Euschatzia* Grote, 1898  
Proc. Am. Phil. Soc. 37(157): 39. Type-species: *Papilio morvus* Fabricius, 1775, Syst. Entomol.: 484, no. 184, by original designation.
- = *Fountainia* Rydon, 1971  
Entomol. Rec. & J. Var. 83(11): 339. Type-species: *Anaea phidile* Geyer, 1837, in: Hübner Zutr. Samml. Exot. Schmett. 5: pl. [156], figs. 905, 906; 27, no. 453, by original designation.
- = *Rydonia* Salazar & Constantino, 2001  
Lambillionia 101(2, suppl. 3): 359, figs. 5A-B, 10. Type species: *Paphia pasibula* E. Doubleday, [1849], in: Gen. diurn. Lepid. (2): pl. 50, fig. 3 [1849]; 2(38): 319 (Westwood, 1850), by original designation.
- = *Annagrapa* Salazar & Constantino, 2001  
Lambillionia 101(2, suppl. 3): 359, figs. 6A-B, 11. Type-species: *Paphia aureola* H. Bates, 1866, Entomol. Mon. Mag. 3(31): 152, no. 108, by original designation.

glycerium group W. Comstock, 1961  
Butts. Am. Tropics: 73.

748. **Memphis glycerium** (E. Doubleday, [1849])  
a. **Memphis glycerium glycerium** (E. Doubleday, [1849])  
In: Gen. diurn. Lepid. (2): pl. 50, fig. 1 [1849]; 2(38): 319 (Westwood, 1850).  
**Original Combination:** *Paphia Glycerium*  
**Type Locality:** "Mexico"  
**Types:** Syntype (#10714) in BMNH.

arginussa group W. Comstock, 1961  
Butts. Am. Tropics: 87.

749. **Memphis pithyusa** (R. Felder, 1869)  
a. **Memphis pithyusa pithyusa** (R. Felder, 1869)  
Verh. zool.-bot. Ges. Wien 19: 473-474, no. 27.  
**Original Combination:** *Nymphalis Pithyusa*  
**Type Locality:** "Potrero" [Veracruz, Mexico]  
**Types:** Holotype in BMNH.  
= ‡"daguna" (Bargmann, 1929)  
Entomol. Anz. (Wien) 9(55): 34.  
**Original Combination:** *Memphis pithyusa* forma *daguna*  
**Type Locality:** Not stated; "Rio Dagua, Colombia" implied from the formation of the name.  
**Types:** Location of "type(s)" not known.  
The text clearly indicates that this taxon was described as an individual variant.

verticordia group W. Comstock, 1961  
Butts. Am. Tropics: 81.

750. **Memphis echemus** (E. Doubleday, [1849])  
a. **Memphis echemus echemus** (E. Doubleday, [1849])  
In: Gen. diurn. Lepid. (1): pl. 49, fig. 4 [1849]; 2(38): 316 (Westwood, 1850).  
**Original Combination:** *Cymatogramma Echemus*  
**Type Locality:** "Honduras" in error; suggested to be "Cuba" by F. Johnson and W. Comstock (1941), J. N. Y. Entomol. Soc. 49(4): 329.  
**Types:** Syntype (#10364) in BMNH.  
The arrangement presented herein follows Smith *et al.* (1994), Butts. W. Ind. & Fla.: 68-69. The single record of this species from the United States (R. Kendall and McGuire (1984), Bull. Allyn Mus. (86): 38-39, figs. 36 ♀ D, 36a ♀ V) apparently represents a rare stray or human-assisted import.  
= *poeyi* (Lucas, 1857)  
In: Sagra, Hist. Cuba 7(2): 562-563.  
**Original Combination:** *Megalura Poeyi*  
**Type Locality:** "environs de la Havane" [Cuba]  
**Types:** Location of type(s) not known, possibly in MNHP.  
= ‡"aguayoi" S. Torre, 1951  
Proc. Entomol. Soc. Wash. 53(6): 336-337, fig. 1 ♂ D (holotype).  
**Original Combination:** *Anaea echemus* form *aguayoi*



**Type Locality:** "Ciudamar, Santiago de Cuba, Oriente" [Cuba]

**Types:** "Holotype" (#3345) in IZAC.

The text clearly indicates that this taxon was described as a seasonal form.

Subfamily **Morphinae** Newman, 1834

Entomol. Magaz. 2(4): 379, 381 (as "Morphites"). Type-genus: *Morpho* [Fabricius], 1807, in: Illiger, Mag. f. Insektenk. 6: 280, no. 5. I.C.Z.N. *Opinion 137* placed *Morpho* on the *Official List of Generic Names in Zoology* as name no. 564. I.C.Z.N. *Direction 99* placed Morphidae Westwood, [1851], in: Gen. diurn. Lepid. (2): 332, on the *Official List of Family-Group Names in Zoology* as name no. 225; I.C.Z.N. *Direction 113* corrected the entry in the *Official List* as above; the same *Direction* placed Morphites Newman, 1834, and Morphoidae Agassiz, 1847, on the *Official Index of Rejected and Invalid Names in Zoology* as names no. 493 and 494, respectively.

Tribe **Morphini** Newman, 1834

Subtribe **Morphina** Newman, 1834

Genus **Morpho** [Fabricius], 1807

In: Illiger, Mag. f. Insektenk. 6: 280. Type-species: *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32, by designation of Westwood (1851), in: Gen. diurn. Lepid. (2)(40): 341. I.C.Z.N. *Opinion 137* placed this name on the *Official List of Generic Names in Zoology* as name no. 564.

- = *†Heliornis* Billberg, 1820  
Enum. Ins. Mus. Billb.: 79. Type-species: *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32, by designation of Hemming (1934), Entomol. 67(2)[849]: 37. A junior objective synonym of *Morpho* [Fabricius], 1807.
- = *†Brassolis* [Illiger], 1807  
Allg. Lit.-Zeit. 2(303): 1181. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32; synonym), by designation of Hemming (1964), Annot. Lepid. (4): 122. I.C.Z.N. *Opinion 232* suppressed this name and placed it on the *Official List of Generic Names in Zoology* as name no. 38.
- = *†Potamis* Hübner, [1807]  
Samml. exot. Schmett. 1: pl. [79]. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32; synonym), by monotypy. I.C.Z.N. *Opinion 137* gave precedence to *Morpho* [Fabricius], 1807, over *Potamis* Hübner, [1807]. I.C.Z.N. *Direction 4* suppressed the name *Potamis* for the purposes of priority, but not homonymy, and placed it on the *Official Index of Rejected and Invalid Names in Zoology* as name no. 212.
- = *Megamede* Hübner, [1819]  
Verz. bekannt. Schmett. (4): 50. Type-species: *Papilio rhetenor* Cramer, 1775, Uitl. Kapellen 1 (2): 22-23, pl. 15, figs. A, B, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 213, no. 662.
- = *Leonte* Hübner, [1819]  
Verz. bekannt. Schmett. (4): 52. Type-species: *Potamis leonte* Hübner, [1807], Samml. exot. Schmett. 1: pl. [79], figs. 1, 2 (= *Papilio achilles* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 463-464, no. 32; synonym), by tautonymy.
- = *Ip̄h̄medeia* Fruhstorfer, 1912  
In: Seitz, Grossschmett. Erde 5(152): 335. Type-species: *Papilio hercules* Dalman, 1823, Analecta Entomol.: 40, no. 6, by designation of Hemming (1943), Proc. R. Entomol. Soc. Lond. (B)12(2): 25.
- = *Ip̄h̄ixibia* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 29, 30, 164. Type-species: *Papilio anaxibia* Esper, 1801, Ausl. Schmett. (15/16): 223-224, pl. 50, fig. 1, by original designation.
- = *Cytheritis* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 29, 30, 165. Type-species: *Leonte portis* H  bner, [1821], Samml. exot. Schmett 2: pl. [77], figs. 1, 2 by original designation.
- = *†Cypritis* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 29, 31, 178. Type-species: *Papilio rhetenor* Cramer, 1775, Uitl. Kapellen 1(2): 22, pl. 15, figs. A, B, by original designation. A junior objective synonym of *Megamede* H  bner, [1819].
- = *Pessonia* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 29, 31, 187. Type-species: *Papilio catenarius* Perry, 1811, Arcana 2: pl. [60], by original designation.
- = *Balachowskyna* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 30, 31, 178. Type-species: *Morpho aurora* Westwood, 1851, in: Gen. diurn. Lepid. (2)(40): 339 (nota), by original designation.
- = *Grasseia* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 30, 31, 190. Type-species: *Papilio menelaus* Linnaeus, 1759, Syst. Nat. (ed. 10) 1: 461, no. 19, by original designation.
- = *†Zeuxidion* Le Moul̄t & R  al, 1962  
Les Morpho D'Amerique, Part I: 174.  
Name proposed without a description or indication; a *nomen nudum*.
- = *Schwartzia* Blandin, 1988  
Gen. Morpho 1: 31. Type-species: *Papilio hecuba* Linnaeus, 1771, Mant. Plant. (2nd ed.): 534, by original designation.

751. **Morpho polyphemus** Westwood, 1850



- a. **Morpho polyphemus polyphemus** Westwood, 1850  
*In*: Gen. diurn. Lepid. (2): pl. 55, fig. 1; (40): 339 (1851).  
**Original Combination**: *Morpho Polyphemus*  
**Type Locality**: "Mexico"  
**Types**: Syntype (#5035) in BMNH.  
 = ♀ "selene" Le Moul't & Réal, 1962  
*Morpho Amerique*: 187.  
**Original Combination**: [*Morpho (Pessonia) polyphemus*] forme *selene*  
**Type Locality**: not stated, "Mexico" implied.  
**Types**: "Holotype" in BMNH.  
 = ♀ "psukhe" Le Moul't & Réal, 1962  
*Morpho Amerique*: 187.  
**Original Combination**: [*Morpho (Pessonia) polyphemus*] forme *psukhe*  
**Type Locality**: "Guerrero" [Mexico]  
**Types**: "Holotype" in BMNH.  
 = ♀ "chromomene" Le Moul't & Réal, 1962  
*Morpho Amerique*: 188.  
**Original Combination**: [*Morpho (Pessonia) polyphemus*] forme *chromomene*  
**Type Locality**: not stated, "Mexico" implied.  
**Types**: "Holotype" in BMNH.

Subfamily **Satyrinae** Boisduval, [1833] (1820)

Icon. Hist. Lépid. Europ. 1(12): 128 (as "Satyrides"). Type-genus: *Satyrus* Latreille, 1810, Consid. gén. Anim. Crust. Arach. Ins.: 355, 440. I.C.Z.N. *Direction* 99 placed Satyridae on the *Official List of Family-Group Names in Zoology* as name no. 226; the same *Direction* placed Satyrides on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as name no. 264. I.C.Z.N. *Opinion* 142 placed *Satyrus* on the *Official List of Generic Names in Zoology* as name no. 596. The family-group name Hipparchiinae Swainson, 1820, Zool. Illustr. (1)1(1): pl. 11, unnumbered text, is senior to Satyrinae. Code Article 23.2 clearly states that if the application of the Principle of Priority disturbs stability or universality and causes confusion that existing usage is to be maintained. The long and consistent use of Satyridae overwhelms priority, and the traditional listing is maintained.

Tribe **Elymniini** Herrich-Schäffer, 1864

Corresp-BI. zool.-min. Ver. Regensburg 18(7/8): 95, 103 (as "Elymniina"). Type-genus: *Elymnias* Hübner, 1818, Zutr. S. Samml. exot. Schmett. 1: 12.

Subtribe **Lethina** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 344 (as "Lethidi"). Type-genus: *Lethe* Hübner, [1819], Verz. bekannt. Schmett. (4): 56.

Genus **Lethe** Hübner, [1819]

Verz. bekannt. Schmett. (4): 56. Type-species: *Papilio europa* Fabricius, 1775, Syst. Entomol.: 500-501, no. 247, by monotypy. The use herein of *Lethe* over *Satyroides* and *Enodia* follows R. Chermock (1947), Entomol. News 58(2): 29-35, de Lesse (1957), Ann. Entomol. Soc. Fr. 125: 80-82, and Scott (1986), Butts. N. Am.: 233-236.

Subgenus **Enodia** Hübner, [1819]

Verz. bekannt. Schmett. (4): 61. Type-species: *Oreas andromacha* Hübner, [1809], Samml. exot. Schmett. 1: pl. [89], figs. 1, 2 (= *Papilio portlandia* Fabricius, 1781, Spec. Ins. 2: 82, no. 363; synonym), by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 26.

752. **Lethe portlandia** (Fabricius, 1781)

- a. **Lethe portlandia floralae** (J. Heitzman & dos Passos, 1974)  
 Trans. Am. Entomol. Soc. 100(1): 67-71, figs. 7 ♂ D, 8 ♂ V (holotype); 9 ♀ D, 10 ♀ V.  
**Original Combination**: *Lethe portlandia floralae*  
**Type Locality**: "Rock Springs, Orange Co., Florida"  
**Types**: Holotype in AMNH.
- b. **Lethe portlandia portlandia** (Fabricius, 1781)  
 Spec. Ins. 2: 82, no. 363.  
**Original Combination**: *P[apilio]. N[ymphalis]. G[emmata] Portlandia*  
**Type Locality**: "America meridionali. Mus. Dom Yeats"; suggested to be "Georgia" by Morris (1862), Smithsonian Misc. Coll. [4]: 79, no. 2, and L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 189.  
**Types**: Neotype in HMUG, designated by J. R. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): 57, figs. 1 ♀ D, 2 ♀ V.  
 = *andromacha* (Hübner, [1809])  
 Samml. exot. Schmett. 1: pl. [89], figs. 1 ♂ D, 2 ♂ V.

**Original Combination:** *Oreas Marmorea Andromacha*

**Type Locality:** Not stated. The neotype of *andromacha* is also the neotype of *portlandia*.

**Types:** Neotype in HMUG, designated by J. R. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): 58, figs. 1 ♀ D, 2 ♀ V.

A junior objective synonym of *portlandia*.

= *†androcardia* Hübner, 1821

Index exot. Lepid.: [1].

**Original Combination:** *Enodia Androcardia*

Proposed as a replacement name for *andromacha* Hübner, [1809], erroneously thought preoccupied; a junior objective synonym of *andromacha* and *portlandia*.

c. ***Lethe portlandia missarkae*** (J. Heitzman & dos Passos, 1974)

Trans. Am. Entomol. Soc. 100(1): 71-75, figs. 11 ♂ D, 12 ♂ V (holotype); 13 ♀ D, 14 ♀ V, fig. 19 ♂ genitalia.

**Original Combination:** *Lethe portlandia missarkae*

**Type Locality:** "five miles south of Fayetteville, Washington County, Arkansas, along the west fork of Little Arkansas White River, one mile east of Fayetteville Airport (or) 4.7 air miles south of the junction of U.S. Highways 71 and 62 (35° 59' 30" N., 94° 10' W.), elevation 1800"

**Types:** Holotype in AMNH.

753. ***Lethe anthedon*** A. Clark, 1936

a. ***Lethe anthedon anthedon*** A. Clark, 1936

Proc. U. S. Nat. Mus. 85(2983): 255, pl. 22, figs. 1 ♂ D, 2 ♂ V (holotype).

**Original Combination:** *Enodia portlandia anthedon*

**Type Locality:** "Lava, Sullivan County, N. Y." [New York]

**Types:** Holotype (#51137) in USNM; figured by A. Clark and L. Clark (1951), Smithsonian Misc. Coll. 116(7): pl. 7, figs. g ♂ D, h ♂ V, and J. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): 77, figs. 15 ♂ D, 16 ♂ V.

b. ***Lethe anthedon borealis*** A. Clark, 1936

Proc. U. S. Nat. Mus. 85: 255.

**Original Combination:** *Enodia portlandia borealis*

**Type Locality:** "Hymers, Ontario"

**Types:** Holotype (#51138) in USNM; figured by J. Heitzman and dos Passos (1974), Trans. Am. Entomol. Soc. 100(1): 77, figs. 17 ♂ D, 18 ♂ V.

The status of this taxon was recently studied by Grkovich and Pavulaan (2003), Tax. Rep. Int. Lepid. Surv. 4(5): 1-15.

754. ***Lethe creola*** (Skinner, 1897)

Entomol. News 8(10): 236.

**Original Combination:** *Debis creola*

**Type Locality:** "Opelousas, La." [Evangeline Parish, Louisiana]

**Types:** Lectotype (#7039) in AMNH, designated by Irwin (1970), J. Lepid. Soc. 24(2): 144, figs. 1 ♂ D, 2 ♂ V.

Subgenus ***Satyrodes*** Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 235, 242, no. 6. Type-species: *Papilio eurydice* Linnaeus, (1763), in: Johansson, Cent. Inst. Rar.: 23, no. 65, by original designation.

= *†Argus* Scopoli, 1777

Intro. Hist. Nat.: 432, no. 172. Type-species: *Papilio eurydice* Linnaeus, (1763), in: Johansson, Cent. Ins. Rar.: 23, no. 65, by designation of Scudder (1872), 4th Ann. Rept. Peabody Acad. Sci. (1871): 27. Preoccupied by *Argus* Bohadsch, 1761, De quibusdam anim. marinis...Liber: 56. I.C.Z.N. *Opinion 429* placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 733.

755. ***Lethe eurydice*** (Linnaeus, 1763)

a. ***Lethe eurydice eurydice*** (Linnaeus, 1763)

In: Johansson, Cent. Ins. Rar.: 23, no. 65; usually cited as from Amoen. acad. 6: 406, no. 65, a subsequent reprint.

**Original Combination:** *Papilio Eurydice D[anaus]*.

**Type Locality:** "Philadelphia. De Geer"; neotype from "Morris Arboretum, Philadelphia Co., Pennsylvania."

**Types:** Type(s) considered lost; neotype in USNM, designated by Cardé *et al.* (1970), Psyche 77(1): 74, figs. 3 ♂ D, 4 ♂ V.

= *†canthus* (Linnaeus, 1767)

Syst. Nat. (ed. 12) 1(2): 768, no. 129; cited *Papilio eurydice* Linnaeus (1763), Amoen. acad. 6: 406, no. 65.

**Original Combination:** *P[apilio]. D[anaus Festivus]. Canthus*

**Type Locality:** "America septentrionali"

**Types:** The type is the same specimen as for *eurydice*.

Proposed as a replacement name for *Papilio eurydice* Linnaeus, 1763, erroneously thought preoccupied. A junior objective synonym of *Papilio eurydice*.

= *†cantheus* (Godart, 1819)

Ency. méth. 9(Ins.)(2): 465, 493, no. 56.

**Original Combination:** *Satyrus Cantheus*

**Type Locality:** "Philadelphia" [Pennsylvania]

**Types:** Type(s), if any exist, may be in MNHP.

Considered by some to be an incorrect subsequent spelling of *canthus* Linnaeus, 1767 (*e.g.*, L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 240, note 620), but possibly a *nomen dubium* in Euptychiina as considered by Cardé *et*

- al.* (1970), *Psyche* 77(1): 76.  
 = *transmontana* (Gosse, 1840)  
 Can. Nat.: 247.  
**Original Combination:** *Hipparchia Transmontana*  
**Type Locality:** "beyond the Rocky Mountains"; implied to be "Compton, Quebec" from the text; defined as "Compton, in Lower Canada" by Gosse (1841), *Entomol.* 1(9): 138; subsequently defined as "within 3 miles of Compton in the county of Sherbrooke (now the county of Compton), Lower Canada, about 45° 15' Lat. and 72° W. Long" by W. D. Field (1936), *J. Entomol. & Zool.* 28(2): 22. [Quebec]  
**Types:** Type(s) apparently lost.  
 Considered a *nomen nudum* by W. Forbes (1960), *Mem. Cornell Univ. Agric. Exp. Sta.* 371 (part 4): 167, footnote, and Cardé *et al.* (1970), *Psyche* 77(1): 77-78. If the Gosse description is considered a *nomen nudum*, then W. D. Field (1936), *J. Entomol. & Zool.* 28(2): 22, is the author of this taxon.  
 = *boisduvallii* (T. Harris, 1862)  
*Ins. injur. Veget.* (3rd ed.): 305-306, fig. 128 ♂ D&V.  
**Original Combination:** *Hipparchia Boisduvallii*  
**Type Locality:** "northwestern parts of this State"; "Massachusetts" implied from the title of the first edition of the book.  
**Types:** Type(s) in MCZ or lost.  
 = ♀ "boweri" F. Chermock, 1927  
*Bull. Brooklyn Entomol. Soc.* 22(2): 119.  
**Original Combination:** *Satyroides canthus* ab. *boweri*  
**Type Locality:** "Port Hope, Ontario, Canada"  
**Types:** "Holotype" in MGCL.  
 = ♀ "rawsoni" W. D. Field, 1936  
*J. Entomol. & Zool.* 28(2): 22.  
**Original Combination:** *Satyroides eurydice* race *transmontana* female f. *rawsoni*  
**Type Locality:** "Bloomfield, Michigan" [Bloomfield Hills, Oakland County]  
**Types:** "Holotype" in USNM.  
 b. *Lethe eurydice fumosus* Leussler, 1916  
*Entomol. News* 27(3): 99-100, pl. iv, figs. 1 ♂ D, 2 ♀ V.  
**Original Combination:** *Satyroides canthus* n. v. *fumosus*  
**Type Locality:** "Sarpy County, Nebraska, a few miles south of Omaha"  
**Types:** Holotype in USNM or OSU; "paratype" figured by W. Holland (1931), *Butt. Book* (rev. ed.): pl. 63, fig. 11 ♂ D; "cotype" figured by Howe (1975), *Butts. N. Am.*: pl. 4, figs. 1 ♂ D, 2 ♂ V (in LACM).  
 756. *Lethe appalachia* R. Chermock, 1947  
 a. *Lethe appalachia appalachia* R. Chermock, 1947  
*Entomol. News* 58(2): 33-34.  
**Original Combination:** *Lethe (Enodia) eurydice appalachia*  
**Type Locality:** "Conestee Falls, near Brevard, North Carolina" [Transylvania County]  
**Types:** Holotype probably in MGCL.  
 b. *Lethe appalachia leeuwi* Gatrell & Arbogast, 1974  
*J. Lepid. Soc.* 28(4): 359, 361, figs. 5 ♂ D (holotype), 6 ♀ D, 7 ♂ V (holotype), 8 ♀ V, 9/12 ♂ D&V, 10/13 ♂ D&V, 11/14 ♀ D&V.  
**Original Combination:** *Lethe appalachia leeuwi*  
**Type Locality:** "Wakelee, Cass Co., Michigan"  
**Types:** Holotype in MGCL.

Tribe **Satyrini** Boisduval, [1833] (1820)

Subtribe **Coenonymphina** Tutt, 1896

*Entomol. Rec. & J. Var.* 7(12): 301 (as "Coenonymphidi"). Type-genus: *Coenonympha* Hübner, [1819], *Verz. bekannt. Schmett.* (5): 65.

Genus **Coenonympha** Hübner, [1819]

*Verz. bekannt. Schmett.* (5): 65. Type-species: *Papilio geticus* Esper, 1789, *Die Schmett.* 1 (suppl.) (1) (3/4): 51-52; (5/6): pl. 102 (cont. 57), fig. 2 (= *Papilio oedippus* Fabricius, 1787, *Mantissa Ins.* 2: 31, no. 335; synonym), by designation of Butler (1868), *Entomol. Mon. Mag.* 4(9): 194.

= *Chortobius* [Dunning & Pickard], [1859]

*Accentuated List Brit. Lepid.*: 5. Type-species: *Papilio pamphilus* Linnaeus, 1758, *Syst. Nat.* (ed 10) 1: 472, no. 86, by designation of Hemming (1934), *Gen. Names Holarct. Butts.* 1: 44.

= ♀ *Chortobius* H. Doubleday, 1859

*Zool. syn. List Brit. Butts.* (ed. 2): 2. Type-species: *Papilio pamphilus* Linnaeus, 1758, *Syst. Nat.* (ed 10) 1: 472, no. 86, by designation of Moore [1893], *Lepid. Ind.* 2(14): 51, 52. Preoccupied by *Chortobius* [Dunning & Pickard], [1859].

= *Sicca* Verity, 1953

*Farfalle diurn. Ital.* 5: 83. Type-species: *Papilio dorus* Esper, 1782, *Die Schmett.* 1(2)(5): 130-131, pl. 78 (cont. 63), fig. 1, by original designation.



757. **Coenonympha haydenii** (W. H. Edwards, 1872)  
*In:* Hayden, Geol. Surv. Montana: 467; figured by W. H. Edwards (1888), Butts. N. Am. 3(5): pl. Erebia 1, figs. 5 ♂ D, 6 ♂ V.  
**Original Combination:** *Erebia Haydenii*  
**Type Locality:** "Yellowstone"; further defined as "Yellowstone Lake" by W. H. Edwards (1874), Trans. Am. Entomol. Soc. 5(1): 19. [Yellowstone National Park, Wyoming]  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 351, fig. 9 ♂ D&V.
- \*758. **Coenonympha tullia** (Müller, 1764)  
*Fauna Ins. Fridrichsdal.*: 36, no. 332.  
**Original Combination:** *Papilio*. *Nymphalis Tullia*  
**Type Locality:** "In agris."; "Fridrichsdal" implied from the title of the work. [Zeeland, Denmark]  
**Types:** Location of types not known, possibly lost.  
 The division of this complex in North America into multiple species-level taxa (*e.g.*, T. Emmel (1975), *in:* Howe, 1975, Butts. N. Am.: 101-105, L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 193-194, and C. Guppy and J. Shepard (2001), Butts. B. C.: 320-323) is untenable at this time (see Porter and Geiger (1988), Can. J. Zool. 66: 2752-2765, Porter and Mattoon, (1989), J. Lepid. Soc. 43(3): 229-238, and Austin and R. Gray (1998), Syst. W. N. Am. Butts. (47): 587-612.). However, the arrangement of taxa herein under *C. tullia* should be considered tentative.
- = *tiphon* (Rottemburg, 1775)  
*Der Naturf.* 6: 15-16, no. 1.  
**Original Combination:** *Papilio*. *Tiphon*  
**Type Locality:** Not stated.  
**Types:** Location of type(s) not known.
- = *isis* (Thunberg, 1791)  
*Ins. Svec.* (2): 31.  
**Original Combination:** *Papilio Isis* [*Papilio*]. *D[anaus]*. *F[estivus]*.  
**Type Locality:** "Suecica...Roslagia"; lectotype from "Sweden."  
**Types:** Lectotype in IZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 448.  
 Preoccupied by *Papilio isis* Drury, 1773, Ill. Nat. Hist. 2: 6, index, pl. 3, figs. 4, 5.
- = *demophile* (Freyer, [1844])  
*Neuer Beitr. Schmett.* 5(74): 97-98, no. 781, pl. 439, figs. 3 ♂ D&V, 4 ♀ D&V.  
**Original Combination:** *Papilio (Hipparchia) Demophile*  
**Type Locality:** "Lappland"  
**Types:** Location of type(s) not known.
- = *suevica* Hemming, 1936  
*Proc. R. Entomol. Soc. Lond.* (B)5(6): 123.  
**Original Combination:** *Coenonympha tullia suevica*  
 Proposed to replace *Hipparchia demophile* Freyer, [1844], *Neuer Beitr. Schmett.* 5(74): 97-98, no. 781, pl. 439, figs. 3, 4, erroneously thought preoccupied. A junior objective synonym of *Hipparchia demophile*.
- = *timanica* Sedykh, 1977  
*Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR*: 102, no. 70.  
**Original Combination:** *Coenonympha tullia*. *timanica*  
**Type Locality:** "environs of Ukhta" [Komi Autonomous Republic, Russia]  
**Types:** Syntypes in ZIN.
- a. **Coenonympha tullia nipisiquit** McDunnough, 1939  
*Can. Entomol.* 71(12): 266.  
**Original Combination:** *Coenonympha inornata nipisiquit* var. nov.  
**Type Locality:** "Bathurst, N. B." [New Brunswick]  
**Types:** Holotype (#4967) in CNC.  
 Layberry *et al.* (1998), Butts. Can.: 217, suggested that this is a species-level taxon, a conclusion subsequently supported by R. Webster (1999), J. Lepid. Soc. 52(4): 345-355.
- b. **Coenonympha tullia mcisaaci** dos Passos, 1935  
*Can. Entomol.* 67(4): 83-84.  
**Original Combination:** *Coenonympha inornata mcisaaci*  
**Type Locality:** "Doyle's Station, Newfoundland" [Newfoundland and Labrador]  
**Types:** Holotype in AMNH; possible syntype figured by D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): pl. 8, fig. 35, left row ♂ D, ♀ D, ♂ V.  
 Spelled "macisaaci" by dos Passos (1964), Mem. Lepid. Soc. (1): 101; an unjustified emendation.
- c. **Coenonympha tullia inornata** W. H. Edwards, 1861  
*Proc. Acad. Nat. Sci. Philad.* 13[6]: 160, 163, no. 6.  
**Original Combination:** *Coenonympha inornata*  
**Type Locality:** "Lake Winnipeg"; suggested to be "somewhere along the lower reaches of the Saskatchewan River" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 340.  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 340, fig. 4 ♂ D&V.
- = *quebecensis* W. Barnes & Benjamin, 1926  
*Bull. South. Calif. Acad. Sci.* 25(3): 89, no. 104a.  
**Original Combination:** *Coenonympha inornata* race *quebecensis*  
**Type Locality:** "Chelsea, Ottawa Co., Que." [Quebec]  
**Types:** Holotype in USNM.

- = *heinemani* F. Brown, [1959]  
J. N. Y. Entomol. Soc. 66(1/2): 67-68, pl. 2, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5 ♂ V, 6 ♂ V, 7 ♂ V, 8 ♂ D, 9 ♀ D, 10 ♀ D.  
**Original Combination:** *Coenonympha inornata heinemani*  
**Type Locality:** "Grindstone Island, Clayton, Jefferson Co., New York"  
**Types:** Holotype in AMNH.  
Layberry, *et al.* (1998), Butts. Can.: 215-216, determined this synonymy.
- d. **Coenonympha tullia benjamini** McDunnough, 1928  
Can. Entomol. 60(11): 272-273.  
**Original Combination:** [*Coenonympha inornata*] *benjamini*  
**Type Locality:** "Waterton Lakes, Alta." [Alberta]  
**Types:** Holotype (#2888) in CNC; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, fig. 19 ♂ V, 20 ♀ D.  
= *bottineauensis* F. Chermock, Simmons & P. Chermock, 1963  
*In:* Knudson and Post, North Dakota Insects 2: 23.  
**Original Combination:** *Coenonympha tullia bottineauensis*  
**Type Locality:** "just east of Bottineau...North Dakota" [Bottineau County]  
**Types:** Holotype in MGCL.
- e. **Coenonympha tullia yukonensis** W. Holland, 1900  
Entomol. News 11(3): 386-387, no. 16.  
**Original Combination:** [*oenonympha*] *kodiak* var. *yukonensis*  
**Type Locality:** "Dawson, Yukon Territory...Eagle City, Alaska...American Creek"  
**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, fig. 21 ♂ D.  
D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): 255-256, suggested that this may be a synonym of *C. t. mixturata*.
- f. **Coenonympha tullia mixturata** Alpheraky, 1897  
*In:* Romanoff, Mém. Lépid. 9: 326-327, pl. 14, fig. 4 ♂ D&V.  
**Original Combination:** *Coenonympha Tiphon* Var. *Mixturata*  
**Type Locality:** "Kamtschatka" [Kamchatka Oblast, Koryakia Autonomous Okrug, Russia]  
**Types:** Syntypes probably in ZIN.
- g. **Coenonympha tullia kodiak** W. H. Edwards, 1869  
Trans. Am. Entomol. Soc. 2(4): 375.  
**Original Combination:** *Caenonympha* [sic!] *Kodiak*  
**Type Locality:** "Kodiak" [Alaska]  
**Types:** Holotype lost; neotype in CMNH, designated by F. Brown (1965), Entomol. News 76(3): 83; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 339, fig. 3 ♂ D&V.
- h. **Coenonympha tullia insulanus** McDunnough, 1928  
Can. Entomol. 60(11): 273.  
**Original Combination:** [*Coenonympha inornata*] *insulanus*  
**Type Locality:** "Victoria, B. C." [Vancouver Island, British Columbia]  
**Types:** Holotype (#2889) in CNC; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, figs. 23 ♀ D, 24 ♂ V.  
Genus-species gender conformation is *insulana*.
- i. **Coenonympha tullia yontocket** Porter & Mattoon, 1989  
J. Lepid. Soc. 43(3): 231-232, figs. 1a ♂ D, 1b ♂ V (holotype); 2a ♀ D, 2b ♀ V, 3a ♂ V, 3b ♂ V.  
**Original Combination:** *Coenonympha tullia yontocket*  
**Type Locality:** "California, Del Norte Co., 4 km W Fort Dick"  
**Types:** Holotype in EMEC.
- j. **Coenonympha tullia californica** Westwood, [1851]  
*In:* Gen. diurn. Lepid. (2): pl. 67, fig. [1851]; (43): 398 (1851).  
**Original Combination:** *Coenonympha California*  
**Type Locality:** "California"; suggested to be "vic. San Francisco" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 194. [San Francisco County]  
**Types:** Syntype (#3532) in BMNH.  
= *galactinus* (Boisduval, 1852)  
Ann. Soc. Entomol. Fr. (2)10(2): 309-310, no. 61.  
**Original Combination:** *Satyrus galactinus*  
**Type Locality:** "les montagnes du nord"; defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 19.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 19, figs. 117 ♂ D, 118 ♂ V.  
= *ceres* Butler, 1866  
Entomol. Mon. Mag. 3(28): 78, no. 5.  
**Original Combination:** *Coenonympha ceres*  
**Type Locality:** "California"  
**Types:** Holotype in BMNH.  
= *brenda* W. H. Edwards, 1869  
Trans. Am. Entomol. Soc. 2(4): 375-376.  
**Original Combination:** *Caenonympha* [sic!] *Brenda*  
**Type Locality:** "Los Angeles, Cala."; suggested to be "Utah or Nevada" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 345, but W. H. Edwards' locality is most likely correct (see below).



**Types:** Types apparently lost. The "lectotype" in FMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 347, fig. 7 ♂ D&V, is not a syntype (Code Article 74.2).

Austin and R. Gray (1998), Syst. W. N. Am. Butts.: 588-589, discussed the "lectotype", compared it with the original description of *brenda*, and determined that it does not represent what Edwards described. They concluded that *brenda* most likely represents a population of *california* from Los Angeles, but deferred designation of a neotype.

= *pulla* Hy. Edwards, 1881

Papilio 1(4): 51.

**Original Combination:** *Coenonympha californica* n. var. *pulla*

**Type Locality:** "San Mateo Co., Cal." [California]

**Types:** Holotype in AMNH.

k. *Coenonympha tullia eryngii* Hy. Edwards, 1877

Proc. Calif. Acad. Sci. [1]7(12): 172.

**Original Combination:** *Coenonympha Eryngii* n. var

**Type Locality:** "Soda Springs, Siskiyou Co., Cal.", but holotype is from "Mt. Shasta." [California]

**Types:** Holotype in AMNH.

= *siskiyouensis* J. A. Comstock, 1925

Bull. South. Calif. Acad. Sci. 24(3): 62-63.

**Original Combination:** *Coenonympha californica* form *siskiyouensis*

**Type Locality:** "Mt. Shasta, Calif." [Siskiyou County, California]

**Types:** "Holotype" in LACM; figured by J. A. Comstock (1927), Butts. Calif.: pl. 18, figs. 11 ♂ D ("holotype"), 12 ♂ V.

The text clearly indicates that this taxon was described as a seasonal form.

l. *Coenonympha tullia eunomia* Dornfeld, 1967

J. Lepid. Soc. 21(1): 3-5.

**Original Combination:** *Coenonympha tullia eunomia*

Dornfeld adopted *Coenonympha ampelos* form *eunomia* W. D. Field, 1937, to represent a subspecies-level taxon, with the same data (Code Articles 10.2, 45.5.1).

= *eunomia* W. D. Field, 1937

Can. Entomol. 69(11): 249-250.

**Original Combination:** [*Coenonympha ampelos*] form *eunomia*

**Type Locality:** "Wilhoit, Oregon" [Clackamas County]

**Types:** "Holotype" (#34795) in USNM.

The text clearly indicates that this taxon was described as an infrasubspecific form.

m. *Coenonympha tullia columbiana* McDunnough, 1928

Can. Entomol. 60(11): 273-274.

**Original Combination:** [*Coenonympha inornata*] *columbiana*

**Type Locality:** "Aspen Grove, B. C." [British Columbia]

**Types:** Holotype (#2890) in CNC; "paratypes" figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 60, figs. 17 ♀ D, 18 ♂ D.

n. *Coenonympha tullia ampelos* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 205, 213, no. 15.

**Original Combination:** *Coenonympha Ampelos*

**Type Locality:** "Oregon"; defined as "southeastern Oregon near the California border" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 342; suggested to be "probably near Goose Lake, Lake County, Oregon" by Austin and R. Gray (1998), Syst. W. N. Am. Butts.: 590.

**Types:** Lectotype in CNC, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 342, fig. 5 ♀ D&V.

= *sweadneri* R. Chermock & F. Chermock, 1941

Proc. Penn. Acad. Sci. 15: 52.

**Original Combination:** *Coenonympha Sweadneri*

**Type Locality:** "Pine Creek, Shoshone Co., Idaho"

**Types:** Holotype in CMNH.

o. *Coenonympha tullia mono* Burdick, 1942

Can. Entomol. 74(1): 2-3, fig. ♂ V.

**Original Combination:** *Coenonympha ampelos mono* race nov.

**Type Locality:** "Bridgeport, Mono Co., California"

**Types:** Holotype (#5223) in CNC.

p. *Coenonympha tullia elko* W. H. Edwards, 1881

Can. Entomol. 13(3): 57-58.

**Original Combination:** *Coenonympha Elko*

**Type Locality:** "Elko, Nev." [Elko County, Nevada]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 345, fig. 6 ♂ D&V; "syntypes" figured by W. Holland (1898), Butt. Book: pl. 25, figs. 25 ♀ V, 26 ♂ D.

q. *Coenonympha tullia pseudobrenda* Austin & R. Gray, 1998

Syst. W. N. Am. Butts. (47): 588, figs. 17 ♂ D (holotype), 19 ♂ D, 27 ♂ V, 18 ♀ D, 25 ♂ V (holotype), 26 ♀ V, 20 ♀ D, 28 ♀ V.

**Original Combination:** *Coenonympha tullia pseudobrenda*

**Type Locality:** "Nevada: Lincoln County; Wilson Creek Range, road towards Wilson Peak from Atlanta Road, 9.6 road miles south of Atlanta Road, 2470 m, T5N R68E S22 on USGS Trail Canyon 15' quadrangle"

**Types:** Holotype in MGCL.



- r. **Coenonympha tullia ochracea** W. H. Edwards, 1861  
Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 163 no. 7.  
**Original Combination:** *Coenonympha ochracea*  
**Type Locality:** "Lake Winnipeg; California; Kansas"; neotype from "Turkey Creek, Jefferson Co., Colo, 8000 ft." [Colorado]  
**Types:** Neotype in CMNH, designated by F. Brown (1963), Entomol. News 74(8): 218; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 348, fig. 8 ♂ D&V.  
= *phantasma* Burdick, 1956  
Lepid. News 10(3/4): 81-83, fig. center ♂ V (holotype).  
**Original Combination:** *Coenonympha tullia phantasma*  
**Type Locality:** "Eldora, Boulder Co., Colo." [Colorado]  
**Types:** Holotype in LACM.  
= *albescens* W. D. Field, 1936  
J. Entomol. & Zool. 28(2): 22.  
**Original Combination:** *Coenonympha ochracea* tr. f. *albescens*  
**Type Locality:** "Albany Co., Wyoming"  
**Types:** "Holotype" in USNM.
- s. **Coenonympha tullia subfusca** W. Barnes & Benjamin, 1926  
Bull. South. Calif. Acad. Sci. 25(3): 90, no. 106a.  
**Original Combination:** *Coenonympha ochracea* race *subfusca*  
**Type Locality:** "White Mts., Arizona"  
**Types:** Holotype in USNM.
- t. **Coenonympha tullia furcae** W. Barnes & Benjamin, 1926  
Bull. South. Calif. Acad. Sci. 25(3): 90, no. 106.1.  
**Original Combination:** *Coenonympha furcae*  
**Type Locality:** "Grand Canyon, Arizona" [Coconino County]  
**Types:** Holotype in USNM.
- u. **Coenonympha tullia mackenziei** D. Davenport, 1936  
Can. Entomol. 68(4): 79.  
**Original Combination:** *Coenonympha tiphon mackenziei*  
**Type Locality:** "Nyarling River, Mackenzie Dist[ri]ct"; defined as "the Nyarling River, 0.8 km from its confluence with the Little Buffalo River, Northwest Territories, (60° 40' N, 113° 25' W)", by Kondla (1995), Blue Jay 53(4): 228.  
**Types:** Holotype (#4066) in CNC; possible syntype figured by D. Davenport (1941), Bull. Mus. Comp. Zool. 87(4): pl. 10, fig. 38, lower right ♂ V.

Subtribe **Euptychiina** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 367 (as "Euptychiidi"). Type-genus: *Euptychia* Hübner, [1818], Zutr. Samml. exot. Schmett. 1: 20.

Genus **Cyllopsis** R. Felder, 1869

Verh. zool.-bot. Ges. Wien 19: 474. Type-species: *Cyllopsis hedemanni* R. Felder, 1869, Verh. zool.-bot. Ges. Wien 19: 474, no. 29, by monotypy.

- \*759. **Cyllopsis pyracmon** (Butler, [1867])  
Proc. Zool. Soc. Lond. 1866(3): 499-500, no. 118; figured by Butler (1867), Proc. Zool. Soc. Lond. 1867(1): pl. 11, fig. 10 ♂ V.  
**Original Combination:** *Euptychia pyracmon*  
**Type Locality:** "Oajaca (Mexico)" [Oaxaca]  
**Types:** Holotype in BMNH.
- a. **Cyllopsis pyracmon henshawi** (W. H. Edwards, 1876)  
Trans. Am. Entomol. Soc. 5(3/4): 205; figured by W. H. Edwards (1887), Butts. N. Am. 3(2): pl. Neonympha 1, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V; a mixed series (see *C. pertepida dorothea* below).  
**Original Combination:** *Euptychia Henshawi*  
**Type Locality:** "Arizona and New Mexico"; lectotype from "Ariz"; suggested to be "vicinity of Camp Lowell" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 331. [Pima County, Arizona]  
**Types:** Lectotype in CMNH, designated by Nabokov (1942), Psyche 49(3/4): 79; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 332, fig. 1 ♀ D&V.  
= *nabokovi* L. Miller, 1974  
Bull. Allyn Mus. (20): 48-50, figs. 106 ♂ D, 107 ♂ V (holotype); 108 ♀ D, 109 ♀ V, 110 ♂ genitalia.  
**Original Combination:** *Cyllopsis pyracmon nabokovi*  
**Type Locality:** "Arizona: Cochise Co.: Ramsey Canyon, Huachuca Mtns."  
**Types:** Holotype in MGCL.
- \*760. **Cyllopsis pertepida** (Dyar, 1912)  
Proc. U. S. Nat. Mus. 42(1885): 39.  
**Original Combination:** *Euptychia pertepida*  
**Type Locality:** "Mexico City, Mexico" [Distrito Federal]  
**Types:** Lectotype (#13852) in USNM, designated by L. Miller (1974), Bull. Allyn Mus. (20): 81.

- a. **Cyllopsis pertepida dorothea** (Nabokov, 1942)  
 Psyche 49(3/4): 61, 62-66, fig. 2, venation; cited W. H. Edwards (1888), Butts. N. Am. 3(2): pl. Neonympha 1, mixed series (see *C. p. henshawi* above), and W. Holland (1898), Butt. Book, pl. 25, fig. 8 ♂ D; both as *henshawi*.  
**Original Combination:** *Neonympha dorothea*/*Neonympha dorothea dorothea*  
**Type Locality:** "Grand Cañon, Ariz., South Rim" [Coconino County, Arizona]  
**Types:** Holotype in MCZ.  
 = *edwardsi* Nabokov, 1942  
 Psyche 49(3/4): 66-67.  
**Original Combination:** *Neonympha dorothea edwardsi*  
**Type Locality:** "Gila Co., Arizona"  
**Types:** Holotype in MCZ.
- b. **Cyllopsis pertepida maniola** (Nabokov, 1942)  
 Psyche 49(3/4): 62, 68-69, fig. 1, venation; cited W. G. Wright (1905), Butts. W. Coast: pl. 25, figs. 266 ♂ D, 266b ♀ D, 266c ♂ V (as *henshawi*).  
**Original Combination:** *Neonympha maniola*  
**Type Locality:** "Cochise Co., Arizona"  
**Types:** Holotype in MCZ.
- c. **Cyllopsis pertepida avicula** (Nabokov, 1942)  
 Psyche 49(3/4): 67-68.  
**Original Combination:** *Neonympha dorothea avicula*  
**Type Locality:** "Fort Davis, Texas" [Jeff Davis County]  
**Types:** Holotype in MCZ.  
 = *texana* (Wind, 1946)  
 Pan-Pac. Entomol. 22(1): 27.  
**Original Combination:** *Neonympha henshawi texana*  
**Type Locality:** "Marfa-Alpine, Texas" [Presidio-Brewster counties]  
**Types:** Holotype in CAS.
761. **Cyllopsis gemma** (Hübner, [1809])
- a. **Cyllopsis gemma gemma** (Hübner, [1809])  
 Zutr. Samml. exot. Schmett.: 8, no. 4; pl. [2], figs. 7 ♂ D, 8 ♂ V.  
**Original Combination:** *Neonympha Gemma*  
**Type Locality:** "Georgien"  
**Types:** Type(s) probably lost.  
 This taxon was described earlier by Hübner (1808), Erste Zutr. Samml. exot. Schmett.: 3, [8], nos. 7, 8 (as *Oreas gemma*), but that work was suppressed by I.C.Z.N. *Opinion* 789.  
 = *cornelius* (Fabricius, 1793)  
 Entomol. Syst. 3(1): 220-221, no. 689; cited Jones' Icones 6: pl. 49, fig. 2.  
**Original Combination:** *P[apilio]. S[atyr]*. *Cornelius*  
**Type Locality:** Not stated, "Dom. Drury."  
**Types:** Type(s) probably lost.  
 This name is a *nomen oblitum*.
- b. **Cyllopsis gemma freemani** (D. Stallings & Turner, 1947)  
 Can. Entomol. 78(7/8): 136.  
**Original Combination:** *Neonympha gemma freemani*  
**Type Locality:** "Pharr, Texas" [Hidalgo County]  
**Types:** Holotype in USNM.  
 = *inductura* (D. Stallings & Turner, 1947)  
 Can. Entomol. 78(7/8): 136.  
**Original Combination:** *Neonympha gemma freemani* form *hiemalis inductura*  
**Type Locality:** "Pharr, Texas" [Hidalgo County]  
**Types:** "Holotype" in USNM.

Genus **Paramacera** Butler, 1868

Entomol. Mon. Mag. 4(9)[45]: 194. Type-species: *Neonympha xicaque* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(3): 336-337, no. 40, by designation of Scudder (1875), Proc. Am. Acad. Arts Sci., Boston 10(2): 240, no. 805.

= *Paramacera* Butler, 1868

Cat. diurn. Lepid. Sat. Brit. Mus.: 98. Type-species: *Neonympha xicaque* Reakirt, [1867], Proc. Acad. Nat. Sci. Philad. 18(3): 336-337, no. 40, by monotypy. A junior objective synonym of *Paramacera* Butler, 1868.

762. **Paramacera xicaque** (Reakirt, [1867])  
 Proc. Acad. Nat. Sci. Philad. 18(3): 336-337, no. 40.

**Original Combination:** *Neonympha xicaque*

**Type Locality:** "Mexico (near Vera Cruz)"; suggested to be "the flanks of Mt. Orizaba" by L. Miller (1972), Bull. Allyn Mus. (8): 11. [Veracruz]

**Types:** Type(s) apparently lost.

= *epinephele* (C. Felder & R. Felder, 1867)

Reise Novara Zool. (3): 476, no. 817.

**Original Combination:** *Neonympha Epinephile*

**Type Locality:** "Mexico"

**Types:** Holotype in BMNH.

‡"conhiera" Butler, 1868

Entomol. Mon. Mag. 4(9)[45]: 194.

**Original Combination:** *P[aramacera]. Conhiera*

This name was listed without a description or indication; a *nomen nudum*.

a. **Paramacera xicaque allyni** L. Miller, 1972

Bull. Allyn Mus. (8): 13-15, figs. 24 ♂ D, 25 ♂ V (holotype); 26 ♀ D, 27 ♀ V, 28 ♂ genitalia.

**Original Combination:** *Paramacera allyni*

**Type Locality:** "U. S. A.: Arizona: Cochise Co.: Barfoot Park, 8000', Chiracahua Mtns."

**Types:** Holotype in MGCL.

Genus **Hermeuptychia** Forster, 1964

Veröff. zool. Staatssamml. München 8: 87-89, figs. 60-67. Type-species: *Papilio hermes* Fabricius, 1775, Syst. Entomol.: 487, no. 195, by original designation. As noted by Opler and A. Warren (2002), Sci. Names List Butts. N. A.: 41, the species-level taxonomy of this genus is in need of a comprehensive revision.

763. **Hermeuptychia sosybius** (Fabricius, 1793)

Entomol. Syst. 3(1): 219, no. 684; cited Jones' Icones 6: pl. 52, fig. 2.

**Original Combination:** *P[apilio]. S[atyri]. Sosybius*

**Type Locality:** Not stated, "Dom. Drury."

**Types:** Type(s) probably lost.

= *kappeli* Anken, 1993

Entomol. Z. 103(22): 418-419, figs. 2a ♂ D, 2b ♂ V (holotype).

**Original Combination:** *Hermeuptychia hermes kappeli*

**Type Locality:** "Lake Okeechobee (Nord), Florida, U. S. A."

**Types:** Holotype in Anken collection.

764. **Hermeuptychia hermes** (Fabricius, 1775)

Syst. Entomol.: 487, no. 195.

**Original Combination:** *P[apilio]. D[anaus]. F[estivus]. Hermes*

**Type Locality:** "Brasilia. Mus. Banks" L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 191, noted that only Rio de Janeiro was visited by Banks.

**Types:** Holotype or syntype (#5036) in BMNH.

Sibling species may be involved within the current concept of *H. hermes*.

= *camerta* (Cramer, 1780)

Uitl. Kapellen 4(25): 10-11, pl. 293, fig. F (34): 248 (index).

**Original Combination:** *Pap[ilio]. Nymphalis]. Gemm[ata]. Camerta*

**Type Locality:** "Surinamsche" "Suriname"

**Types:** Type(s) probably lost.

= *canthe* (Hübner, [1811])

Samml. exot. Schmett. 1: pl. [87], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Oreas Strigata Canthe*

**Type Locality:** Not stated; suggested to be "Surinam" by Hemming (1937), Hübner 2: 122 (manuscript 35).

**Types:** Location of type(s) not known, probably lost.

Butler [1867], Proc. Zool. Soc. Lond. 1866(3): 475, no. 51, determined this synonymy.

= *hermessa* (Hübner, [1819])

Verz. bekannt. Schmett. (4): 54, no. 508; cited *Papilio hermes* Fabricius, 1775, Syst. Entomol.: 487, no. 195, and *Papilio antonoe* Cramer, 1775, Uitl. Kapellen 1(5): pl. 60, figs. E, F.

**Original Combination:** *Euptychia Hermessa*

**Type Locality:** "Brasilia"

**Types:** Type(s) probably lost.

= *nana* Möschler, 1877

Verh. zool.-bot. Ges. Wien 26: 323-324.

**Original Combination:** *[Euptychia] Nana*

**Type Locality:** "dem innern Surinams"

**Types:** Holotype may be in ZMHB.

= *isabella* Anken, 1994

Entomol. Z. 104(14): 287-288, figs. 3a ♂ D, 3b ♂ V, 4 ♂ genitalia.

**Original Combination:** *Hermeuptychia hermes isabella*

**Type Locality:** "Barranco do Rio Amambai, Navirai, Mato Grosso do Sul, Brasilien"

**Types:** Holotype in Anken collection.

‡"hermesina" Forster, 1964

Veröff. zool. Staatssamml. München 8: 90.

**Original Combination:** *[Hermeuptychia] hermes hermesina*



Name proposed without a description or indication; a *nomen nudum*.

Genus **Neonympha** Hübner, 1818

Zutr. Samml. exot. Schmett. 1: 8, no. 4. Type-species: *Papilio areolatus* J. E. Smith, 1797, in: Smith and Abbot, Ins. Georgia 1: 25, pl. 13, by designation of Hemming (1937), Proc. R. Entomol. Soc. Lond. (B)6(8): 150.

765. **Neonympha areolatus** (J. E. Smith, 1797)

In: Smith and Abbot, Ins. Georgia 1: 25-26, pl. 13, figs. ♂ D, ♀ D, ♀ V, larva, pupa.

**Original Combination:** *Papilio Areolatus*

**Type Locality:** "Georgia" implied from notes to the original drawing by John Abbot; neotype from "Pine Barrens Road, Chatham County, Georgia."

**Types:** Described, at least in part, from a John Abbot drawing. The specimens upon which this drawing was based are probably lost. Neotype in MGCL, designated by Gatrell (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 5, fig. 1 ♂ V.

Genus-species gender conformation is *areolata*.

= *phocion* (Fabricius, 1793)

Entomol. Syst. 3(1): 218-219, no. 683.

**Original Combination:** *P[apilio]. S[atyr]. Phocion*

**Type Locality:** Not stated, "Mus. Brittan."; Butler (1868), Cat. Sat. Brit. Mus.: 37, listed "United States."

**Types:** Type(s) probably lost.

Preoccupied by *Papilio phocion* Fabricius, 1781, Spec. Ins. 2: 138.

766. **Neonympha helicta** (Hübner, [1808])

The separation of *N. helicta* from *N. areolata* was discussed by Gatrell (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 1-8, but requires additional corroboration.

a. **Neonympha helicta helicta** (Hübner, [1808])

Samml. exot. Schmett. 1: pl. [95], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Oreas fimbriata Helicta*

**Type Locality:** Not stated; suggested to be "Georgia, United States" by Butler [1867], Proc. Zool. Soc. Lond. 1866(3): 499, no. 117; neotype from "vicinity of Aiken State Park, Aiken County, South Carolina."

**Types:** Neotype in MGCL, designated by Gatrell (1999), Tax. Rept. Int. Lepid. Surv. 1(8): 2, fig. 4 ♂ V.

b. **Neonympha helicta septentrionalis** W. T. Davis, 1924

J. N. Y. Entomol. Soc. 32(2): 107, pl. 10, fig. 4 ♂ D&V (holotype).

**Original Combination:** [*Neonympha areolata*] [var. or race] *septentrionalis*

**Type Locality:** "Lakehurst, N. J." [Ocean County, New Jersey]

**Types:** Holotype probably in SIIS.

c. **Neonympha helicta dadeensis** Gatrell, 1999

Tax. Rept. Int. Lepid. Surv. 1(8): 7, figs. 6 ♂ V (holotype), 12 ♀ V.

**Original Combination:** *Neonympha helicta dadeensis*

**Type Locality:** "Carde Sound Road, Dade County, Florida" [Miami-Dade County]

**Types:** Holotype in MGCL.

767. **Neonympha mitchellii** French, 1889

a. **Neonympha mitchellii mitchellii** French 1889

Can. Entomol. 21(2): 25-27.

**Original Combination:** *Neonympha Mitchellii*

**Type Locality:** "Cass County, Michigan...upland dry meadows, about ten miles from the Indiana line"

**Types:** Type(s) apparently lost; figured by [Skinner] (1892), Entomol. News 3(3): 49, pl. 2, figs. ♂ D, 12 ♀ V.

b. **Neonympha mitchellii francisci** Parshall & Kral, 1989

J. Lepid. Soc. 43(2): 115-117, figs. 2a ♀ V, 2b ♂ V (holotype), 2f ♂ VHW.

**Original Combination:** *Neonympha mitchellii francisci*

**Type Locality:** "Fort Bragg, North Carolina" [Cumberland County]

**Types:** Holotype in USNM.

Genus **Megisto** Hübner, [1819]

Verz. bekannt. Schmett. (4): 54. Type-species: *Papilio eurytus* Fabricius, 1775, Syst. Entomol.: 487, no. 194 (= *Papilio cymela*, Cramer, 1777, Utitl. Kapellen 2(11): 55, pl. 132, figs. C, D; (16): 148 (index); synonym), by designation of Butler (1868), Cat. diurn. Lepid. Sat. Brit. Mus.: 14.

768. **Megisto cymela** (Cramer, 1777)

a. **Megisto cymela cymela** (Cramer, 1777)

Utitl. Kapellen 2(11): 55, pl. 132, figs. C ♂ D, D ♂ V; (16): 148 (index).

**Original Combination:** *Pap[ilio]. Nymph[alis]. Gemm[ata] Cymela*

**Type Locality:** "Kaap de Goede Hoop" "Cap de bonne Esperance" in error; neotype from "Jacksonboro, Colleton County, South Carolina."

**Types:** Type(s) probably lost; neotype in MGCL, designated by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 3, figs. 3 ♂ D, 4 ♀ V.

= *eurytus* (Fabricius, 1775)

Syst. Entomol.: 487, no. 194.

**Original Combination:** *P[apilio]. D[anaus]. F[estivus]. Eurytus*

**Type Locality:** "Jamaica. Mus. D. Hunter" This locality was probably reversed with that of the taxon that preceded it (*Papilio zangis*, no. 193, from "Carolina"), since that taxon is only known from Jamaica. Defined as "Goose Creek, Berkeley County, South Carolina" by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2.

**Types:** Lectotype (#127231) in HMUG, designated by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2, figs. 1♂ D, 2♂ V.

Preoccupied by *Papilio eurytus* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 487, no. 180.

= *eurytris* (Fabricius, 1793)

Entomol. Syst. 3(1): 157, no. 485.

**Original Combination:** *P[apilio]. N[ymphales]. Eurytris*

**Type Locality:** "Jamaica. Mus. Dom. Banks," but see comment above.

**Types:** Lectotype (#127231) in HMUG, designated by Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2, figs. 1♂ D, 2♂ V. This is the same specimen as the lectotype of *eurytus*.

It is possible that this is a replacement name for *eurytus*. Other Fabrician names have been so considered on similar evidence. Conversely, this may be an incorrect subsequent spelling, supported by the spellings "*eurithris*" Fabricius, 1796, Index alph. Fabricii entomol. syst.: 122, and "*eurythris*" Fabricius, 1797, Epitome entomol. fabric. nomencl. entomol.: 135. Gatrell (2005), Tax. Rep. Int. Lepid. Surv. 6(5): 2, proposed an entirely different idea, with novel application of this name as senior to *viola* below.

b. **Megisto cymela viola** (Maynard, 1891)

Butts. N. England (ed. 2): 71, pl. 10, fig. 11♂ V; figured by Maynard (1891), Manual N. Am. Butts.: fig. 36b.

**Original Combination:** *Neonympha eurytris viola*

**Type Locality:** "Enterprise, Florida" [Volusia County]

**Types:** Holotype in MCZ.

This taxon has been treated as distinct species by Oliver (1982), J. Lepid. Soc. 36(2): 153, Opler and Krizek (1984), Butts. East Great Plains: 185, and Opler (1992), Field Guide E. Butts.: 212. Catling and Calhoun (1997), Holarct. Lepid. 4(1): 27, determined this taxon to be a subspecies of *M. cymela* occurring in peninsular Florida.

769. **Megisto rubricata** (W. H. Edwards, 1871)

a. **Megisto rubricata rubricata** (W. H. Edwards, 1871)

Trans. Am. Entomol. Soc. 3(3/4): 205, 212-213, no. 14.

**Original Combination:** *Euptychia Rubricata*

**Type Locality:** "near Waco, Texas"; neotype from "Waco Texas." [McLennan County]

**Types:** Neotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 335, fig. 2♂ D&V.

b. **Megisto rubricata smithorum** (Wind, 1946)

Pan-Pac. Entomol. 22(1): 26.

**Original Combination:** *Euptychia rubricata smithorum*

**Type Locality:** "Marfa-Alpine, Texas" [Presidio-Brewster counties]

**Types:** Holotype in CAS.

c. **Megisto rubricata cheneyorum** (R. Chermock, 1949)

Can. Entomol. 80(6): 172-173.

**Original Combination:** *Euptychia rubricata cheneyorum*

**Type Locality:** "Madera Canyon, Santa Rita Mts., Pima Co., Arizona, elevation 5800 feet"

**Type:** Holotype possibly in CUIC.

Subtribe **Maniolina** Verity, 1953

Farfalle diurne Ital. 5: 228, 237 (as "Maniolidi"). Type-genus: *Maniola* Schrank, 1801, Fauna boic. 2(1): 152, 170. I.C.Z.N. *Opinion* 506 placed Maniolidi on the *Official List of Family-Group Names in Zoology* as name no. 214, and *Maniola* on the *Official List of Generic Names in Zoology* as name no. 1254.

Genus **Cercyonis** Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 235, 241, no. 5. Type-species: *Papilio alope* Fabricius, 1793, Entomol. Syst. 3(1): 229, no. 715 (= *Papilio pegala* Fabricius, 1775, Syst. Entomol.: 494, no. 223; subspecies), by original designation.

770. **Cercyonis pegala** (Fabricius, 1775)

a. **Cercyonis pegala pegala** (Fabricius, 1775)

Syst. Entomol.: 494, no. 223.

**Original Combination:** *P[apilio]. N[ymphalis]. G[emmata]. Pegala*

**Type Locality:** "in America. Mus. D. Hunter"; defined as "vicinity of Charleston, South Carolina" by F. Brown [1966], J. Res. Lepid. 4(2): 134-135.

**Types:** Lectotype in HMUG, designated by F. Brown [1966], J. Res. Lepid. 4(2): 134-135, fig. 1 left ♂ D&V.

= *maritima* (W. H. Edwards, 1880)

Can. Entomol. 12(2): 23; figured by W. H. Edwards (1882), Butts. N. Am. 2(10): pl. Satyrus 1, figs. 6♂ D.

**Original Combination:** [*Satyrus Alope*] variety *Maritima* (but under *Satyrus Nephela*)

**Type Locality:** "Martha's Vineyard"; further defined as "Oak Bluffs" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374. [Dukes County, Massachusetts]



- Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 376, fig. 18 ♂ D&V.  
 = *abbotti* F. Brown, 1969  
 Entomol. News 80(7): 194-195, fig. 1 ♂ D&V (holotype), 2 ♀ D&V.  
**Original Combination:** *Cercyonis pegala abbotti*  
**Type Locality:** "ChIPLEY/Florida" [Washington County]  
**Types:** Holotype (#8992) in CMNH.  
 Sourakov (1995), Holarct. Lepid. 2(1): 8, determined this synonymy.
- b. ***Cercyonis pegala alope*** (Fabricius, 1793)  
 Entomol. Syst. 3(1): 229, no. 715; cited Jones' Icones 4: pl. 12, fig. 1.  
**Original Combination:** *P[apilio]. S[atyr]. Alope*  
**Type Locality:** "India Dom. Francillon"; defined as "Burke-Screven-Bulloch counties region of Georgia" by F. Brown [1966], J. Res. Lepid. 4(2): 136-137.  
**Types:** Type(s) apparently lost.  
 = *carolina* (F. Chermock & R. Chermock, 1942)  
 Proc. Penn. Acad. Sci 16: 59.  
**Original Combination:** *Cercyonis alope carolina* new race  
**Type Locality:** "Conestee Falls, N. C." [Transylvania County, North Carolina]  
**Types:** Syntypes in MGCL.  
 = "ochracea" (F. Chermock & R. Chermock, 1942)  
 Proc. Penn. Acad. Sci 16: 59.  
**Original Combination:** *Cercyonis alope ochracea* new form  
**Type Locality:** "Washington Park, Providence, Rhode Island" [Providence County]  
**Types:** "Syntypes" in MGCL.  
 The text clearly indicates that this taxon was described as an individual variant.
- c. ***Cercyonis pegala texana*** (W. H. Edwards, 1880)  
 Can. Entomol. 12(2): 24; figured by W. H. Edwards (1882), Butts. N. Am. 2(10): pl. Satyrus 2, figs. 7 ♂ D&V.  
**Original Combination:** [*Satyrus Alope*] var. *Texana*  
**Type Locality:** "Texas"; defined as "Bastrop, Bastrop Co., Texas" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374.  
**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 188, pl. 63, fig. 21 ♂ V; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 374, fig. 17 ♀ D&V.
- d. ***Cercyonis pegala olympus*** (W. H. Edwards, 1880)  
 Can. Entomol. 12(2): 31; figured by W. H. Edwards (1882), Butts. N. Am. 2(10): pl. Satyrus 3, figs. 5 ♂ D&V, 6 ♀ D&V.  
**Original Combination:** [*Satyrus Nephela*] variety *Olympus*  
**Type Locality:** "somewhere between New York and Illinois...to and on the eastern slopes of the Rocky Mountains"; defined as "Chicago, Illinois" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 376, 378. [Cook County]  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 378, fig. 19 ♂ D&V.  
 Ifitner *et al.* (1992), Ohio Biol. Surv. Bull., n. s. 9(1): 147-148, suggested that the name *olympus* represents part of the variation seen in *nephela* and is a synonym of that name, together with the taxon *borealis* (see below).  
 = *borealis* F. Chermock, 1929  
 Bull. Brooklyn Entomol. Soc. 24(1): 21.  
**Original Combination:** *Cercyonis (Satyrus) pegala* race *borealis*  
**Type Locality:** "Trumbull Co., Ohio"  
**Types:** Holotype destroyed, as stated by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 195; paratypes in MGCL.
- e. ***Cercyonis pegala nephela*** (W. Kirby, 1837)  
*In:* Richardson, Fauna Bor-Am. [4]: 297, no. 1.  
**Original Combination:** *Hipparchia Nephela*  
**Type Locality:** "Canada"; defined as "the area at the extreme western end of North Channel, Lake Huron...bounded by the meridians 45° 56'-46° 20' N/83° 19'-84° 06' W in Ontario, Canada" by F. Brown (1966), J. N. Y. Entomol. Soc. 73(4): 240-242.  
**Types:** Type(s) possibly in BMNH.
- f. ***Cercyonis pegala ino*** G. Hall, 1924  
 J. N. Y. Entomol. Soc. 32(2): 109-110, pl. 11, figs. 2 ♂ V (holotype), 3 ♂ V.  
**Original Combination:** *Cercyonis alope ino*  
**Type Locality:** "Calgary, Alberta"  
**Types:** Holotype in AMNH; figured by Sourakov (1995), Holarct. Lepid. 2(1): fig. 2, 1st row, 2nd row D&V.
- g. ***Cercyonis pegala incana*** (W. H. Edwards, 1880)  
 Can. Entomol. 12(5): 91-92.  
**Original Combination:** [*Satyrus Ariane*] *incana*  
**Type Locality:** "Olympia, Washington Territory" [Thurston County]  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 381, fig. 21 ♂ D&V.  
 C. Guppy and J. Shepard (2001), Butts. B. C.: 325, discussed the status of this taxon.
- h. ***Cercyonis pegala boopis*** (Behr, 1864)  
 Proc. Calif. Acad. Sci. 3(2) (11): 164.  
**Original Combination:** *Satyrus Boopis*  
**Type Locality:** "Contra Costa" "California" implied from title of paper; neotype from "Point Richmond, Contra Costa County, California."  
**Types:** Type(s) destroyed in the 1906 San Francisco earthquake and fire; neotype in CAS, designated by J. Emmel *et al.* (1998),



Syst. W. N. Am. Butts. (6): 102, figs. 46 ♂ D, 47 ♂ V.

= *baronii* (W. H. Edwards, 1880)

Can. Entomol. 12(5): 90-91.

**Original Combination:** [*Satyrus Ariane*] *Baronii*

**Type Locality:** "various localities in Northern California"; defined as "Mendocino County, California" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 380.

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 379, fig. 20 ♂ D&V.

i. *Cercyonis pegala ariane* (Boisduval, 1852)

Annls. Soc. Entomol. Fr. (2)10(2): 307-308, no. 58; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, figs. 2180 ♂ D&V, 2181 ♀ D&V.

**Original Combination:** *Satyrus Ariane*

**Type Locality:** "dans les forêts"; stated to be "dans les endroits rocailleux des montagnes" by Boisduval (1869), Annls. Soc. Entomol. Belg. 12: 62, no. 61; defined as "Tuolumne County, California" by F. Brown [1966], J. Res. Lepid. 4(2): 139; corrected to "Meadow Valley Rd., 2 miles S. of Spanish Ranch, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 19.

**Types:** Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 141, fig. 2 ♂ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 108 ♂ D, 109 ♂ V.

j. *Cercyonis pegala gabbii* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 193, no. 7.

**Original Combination:** *Satyrus Gabbii*

**Type Locality:** "Oregon"; suggested to be "Lake Co., Oregon" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 382-383; further defined as "Goose Lake, Lake County, Oregon" by Austin (1992), Bull. Allyn Mus. (135): 8.

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 384, fig. 22 ♀ D&V.

k. *Cercyonis pegala carsonensis* Austin, 1992

Bull. Allyn Mus. (135): 10-11, figs. 69 ♂ D (holotype), 70 ♀ D, 81 ♂ V (holotype), 82 ♀ V, 93-112 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala carsonensis*

**Type Locality:** "Nevada: Douglas County; Carson River Valley, Scossa Ranch, Nevada State Route 206, 3.6 miles south of Nevada State Route 207, 1463m, T12N R19E S26 on USGS Freel Peak, Calif.-Nev. 15' quadrangle. The area is a lush, marsh area at the base of the Carson Range"

**Types:** Holotype in MGCL.

l. *Cercyonis pegala walkerensis* Austin, 1992

Bull. Allyn Mus. (135): 18-19, figs. 79 ♂ D (holotype), 80 ♀ D, 91 ♂ V (holotype), 92 ♀ V, 193-212 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala walkerensis*

**Type Locality:** "California: Mono County; Huntton Valley, Swanger Creek, U.S. highway 395, Huntton Camp, 5.4 road miles northwest of Bridgeport, 2048 m on USGS Fales Hot Springs, Calif.-Nev. 15' quadrangle. This is a damp to grassy area along a creek lined with willows"

**Types:** Holotype in MGCL.

m. *Cercyonis pegala wheeleri* (W. H. Edwards, 1873) †

Trans. Am. Entomol. Soc. 4(4): 343; figured by Mead (1875), Rep. Coll. diurn. Lepid. 5(Zool.): pl. 38, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, and W. H. Edwards (1877), Butts. N. Am. 2(6): pl. Satyrus 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Satyrus Wheeleri*

**Type Locality:** "between the Cascade and Rocky Mountains...precise locality not indicated"; incorrectly suggested to be either "St. George, Utah" or "Cottonwood Springs, Nevada" by F. Brown [1958], J. N. Y. Entomol. Soc. 65(3/4): 228; stated as "nr. Owens Lake, Inyo Co., California" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 387.

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): 190, pl. 63, fig. 16 ♀ V; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 387, fig. 23 ♀ D&V.

= *hoffmani* (Strecker, 1873)

Lepid. Rhop. Het. (4): 31, pl. 4 ♀ D&V; (8): 66, pl. 8, fig. 12 ♂ D&V (1874).

**Original Combination:** *Satyrus Hoffmani*

**Type Locality:** "Owens Lake, Nevada [*sic!*]"; part of the same type lot as *wheeleri*. [Inyo County, California]

**Types:** Lectotype in MGCL, designated by Austin (1992), Bull. Allyn Mus. (135): 6, figs. 21 ♂ D, 27 ♂ V.

n. *Cercyonis pegala paucilineatus* Austin, 1992

Bull. Allyn Mus. (135): 12-13, figs. 71 ♂ D (holotype), 72 ♀ D, 83 ♂ V (holotype), 84 ♀ V, 113-132 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala paucilineatus*

**Type Locality:** "Nevada: Humboldt County; Quin River Valley, U.S. route 95, 3.8 miles south of Orovada, 1304m, T42N R37E S15 on USGS Orovada, Nev. 15' quadrangle. This is a low, somewhat wet, grassy area east of the Quinn River channel and adjacent to cultivated fields"

**Types:** Holotype in MGCL.

o. *Cercyonis pegala pluvialis* Austin, 1992

Bull. Allyn Mus. (135): 14-16, figs. 75 ♂ D (holotype), 76 ♀ D, 87 ♂ V (holotype), 88 ♀ V, 153-172 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala pluvialis*

**Type Locality:** "Nevada: White Pine County; White River Valley, 1 mile north of Nye County line, 1676m, T10N R61E S11 on USGS Moorman Spring NE, Nev. 7.5' quadrangle. This is a narrow marshy area in the channel of the pluvial White River"

**Types:** Holotype in MGCL.

p. *Cercyonis pegala paludum* Austin, 1992

Bull. Allyn Mus. (135): 16-18, figs. 77 ♂ D (holotype), 78 ♀ D, 89 ♂ V (holotype), 90 ♀ V, 173-192 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala paludum*

**Type Locality:** "Nevada: Elko County; Pleasant Valley, Nevada State Route 227, 3.7-4.0 miles west of Lamoille Canyon Road, 1719m, T33N R57E S21 on USGS Lee, Nev. 15' quadrangle. The area is a wet grassy meadow along a stream lined with willow"

**Types:** Holotype in MGCL.

q. ***Cercyonis pegala stephensi*** (W. G. Wright, 1905)

Butts. W. Coast. 58, no. 249; 184, no. 249, pl. 23, figs. 249 ♀ [not ♂] D, 249b ♀ [not ♂] D (lectotype), 249c ♀ V.

**Original Combination:** [*Satyrus*] *Stephensi*; *Satyrus Stephensi* n. s.

**Type Locality:** "Northeastern Cal.; Nevada; Ore." "Northeastern California"; defined as "the valley some miles south of the southernmost Alkali Lake, in Modoc Co." by J. A. Comstock (1924), Bull. South. Calif. Acad. Sci. 23(1): 16; further defined as "between Lake City and Cedarville, Surprise Valley, Modoc County, California" by Austin (1992), Bull. Allyn Mus. (135): 9.

**Types:** Lectotype (#4314) in CAS, designated by Tilden (1975), Occ. Pap. Calif. Acad. Sci. (118): 26.

= *blanca* T. Emmel & Mattoon, 1972

J. Lepid. Soc. 26(3): 141-142, figs. 2 ♂ D (holotype), 3 ♀ D, 5 ♂ V (holotype), 6 ♀ V.

**Original Combination:** *Cercyonis pegala blanca*

**Type Locality:** "Nevada, Hwy. 140 at Dufurrena Ranch -Chas. Sheldon Antelope Range, T45N, R26E, Humboldt County"

**Types:** Holotype in MGCL.

r. ***Cercyonis pegala utahensis*** Austin, 1992

Bull. Allyn Mus. (135): 13-14, figs. 73 ♂ D (holotype), 74 ♀ D, 85 ♂ (holotype), 86 ♀ V, 133-152 ♂&♀, D&V.

**Original Combination:** *Cercyonis pegala utahensis*

**Type Locality:** "Utah: Utah County; Benjamin, vicinity of 7300S at 2610W, 1390m, on the farm of Joel M. Johnson of Payson, Utah. Types were taken here in a grassy area along a small stream, in an orchard and in a grassy field"

**Types:** Holotype in MGCL.

771. ***Cercyonis meadii*** (W. H. Edwards, 1872)

a. ***Cercyonis meadii meadii*** (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 70, no. 10; figured by W. H. Edwards (1891), Butts. N. Am. 3(11): pl. *Satyrus* 2, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Erebia Meadii*

**Type Locality:** "Bailey's Ranch, in the South Park, Colorado, about 45 miles from Denver" [Park County]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 372, fig. 16 ♀ D&V.

b. ***Cercyonis meadii alamosa*** T. Emmel & J. Emmel, 1969

J. Lepid. Soc. 23(3): 161-163, figs. 1 ♂ D (holotype), 2 ♀ D, 3 ♂ V, 4 ♀ V, 5 ♂ genitalia.

**Original Combination:** *Cercyonis meadii alamosa*

**Type Locality:** "Colorado, San Luis Valley, 7.0 miles north of junction of Highway 17 & Highway 112, on Highway 17, Saguache County, 7539' elevation"

**Types:** Holotype in LACM.

c. ***Cercyonis meadii melania*** (Wind, 1946)

Pan-Pac. Entomol. 22(1): 25-26.

**Original Combination:** *Minois meadii melania*

**Type Locality:** "Marfa-Alpine, Texas" [Presidio-Brewster counties]

**Types:** Holotype in CAS.

d. ***Cercyonis meadii damei*** W. Barnes & Benjamin, 1926

Bull. South. Calif. Acad. Sci. 25(3): 90, no. 113.1.

**Original Combination:** *Cercyonis damei*

**Type Locality:** "Grand Canyon, Arizona" [Coconino County]

**Types:** Holotype in USNM.

Scott (1982), J. Res. Lepid. 20(1): 62, considered this to be a probable hybrid between *C. meadii* and *C. sthenele*. This name predates *mexicana* and *masoni*.

= *mexicana* R. Chermock, 1949

Can. Entomol. 80(6): 172.

**Original Combination:** *Cercyonis meadii mexicana*

**Type Locality:** "Chihuahua, Mexico"; defined as "head of the Rio Piedras Verdes, in Chihuahua, at an elevation of from 7,100 to 7,300 feet...in the Sierra Madre region" by Clench (1965), Entomol. News 76(6): 158, who quoted W. Holland (1900), Entomol. News 10(11): 332-333, from the description of *Argynnis nitocris* var. *coerulescens*.

**Types:** Holotype in CMNH.

772. ***Cercyonis sthenele*** (Boisduval, 1852)

a. ***Cercyonis sthenele masoni*** Cross, 1937

Proc. Colo. Mus. Nat. Hist. 16(1): 9-10, fig., D&V (holotype).

**Original Combination:** *Cercyonis masoni*

**Type Locality:** "Black Ridge Breaks...Mesa County" [Colorado]

**Type:** Holotype possibly in DNHC.

b. ***Cercyonis sthenele paulus*** (W. H. Edwards, 1879)

Can. Entomol. 11(3): 50-51.

**Original Combination:** *Satyrus Paulus*

**Type Locality:** "Nevada" implied from the title of paper; neotype from "vic. Virginia City, Storey Co., Nevada."

**Types:** Neotype designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 365, fig. 13 ♂ D&V.

c. ***Cercyonis sthenele silvestris*** (W. H. Edwards, 1861)

Proc. Acad. Nat. Sci. Philad. 13[6]: 160, 162-163, no. 5; figured by W. H. Edwards (1895), Butts. N. Am. 3(16): pl. *Satyrus* 3,



figs. 5 ♂ V.

**Original Combination:** *Satyrus Silvestris*

**Type Locality:** "California"; defined as "two air miles southwest of Pulga, north Fork Feather River Canyon, Butte County, California" by T. Emmel and J. Emmel (1998), Syst. W. N. Am. Butts. (9): 121.

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 362, fig. 12 ♂ D&V.

= *okius* (Oberthür, 1914)

Étud. Lépid. Comp. 9(2): 79, pl. 260, figs. 2184 ♂ D&V; cited Boisduval (1852), Annls. Soc. Entomol. Fr. (2)10(2): 307.

**Original Combination:** [*Satyrus Ariane*] *Okius*

**Type Locality:** "Californie" implied from the citation of Boisduval's paper.

**Types:** Holotype probably in USNM.

This taxon seems best placed here for the present, but it may be a senior synonym of *C. s. sineocellata*.

d. ***Cercyonis sthenele sineocellata*** Austin & J. Emmel, 1998

Syst. W. N. Am. Butts. (42): 514-515, figs. 63 ♂ D, 64 ♂ V (holotype); 65 ♀ D, 66 ♀ V.

**Original Combination:** *Cercyonis sthenele sineocellata*

**Type Locality:** "Oregon: Lake County; west side of Crump Lake, 8.2 road miles north of Adel"

**Types:** Holotype in MGCL.

e. ***Cercyonis sthenele behrii*** F. Grinnell, 1905

Entomol. News 16(2): 33-34.

**Original Combination:** *Satyrus behrii*

**Type Locality:** "Mt. Tamalpais, Marin Co., California. Right across the bay from San Francisco"; neotype from "Pan Toll Camp, Mt. Tamalpais, Marin County, California."

**Types:** Type destroyed in the 1906 San Francisco earthquake and fire; neotype in LACM, designated by T. Emmel and J. Emmel (1998), Syst. W. N. Am. Butts. (8): 118, figs. 1 ♂ D, 2 ♂ V.

f. ***Cercyonis sthenele sthenele*** (Boisduval, 1852) †

Annls. Soc. Entomol. Fr. (2)10(2): 308-309, no. 59; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 260, figs. 2182 ♂ D&V (lectotype), 2183 ♀ D&V.

**Original Combination:** *Satyrus Sthenele*

**Type Locality:** "Californie" implied from the title of the paper; suggested to be "San Francisco" by F. Brown [1966], J. Res. Lepid. 4(2): 141; further defined as "San Francisco, San Francisco County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 19.

**Types:** Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 141, fig. 3 ♀ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 114 ♂ D, 115 ♂ V.

g. ***Cercyonis sthenele hypoleuca*** Hawks & J. Emmel, 1998

Syst. W. N. Am. Butts. (25): 321-322, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V.

**Original Combination:** *Cercyonis sthenele hypoleuca*

**Type Locality:** "USA, California, Santa Barbara County, Santa Cruz Island, Canada Sauces Oeste"

**Types:** Holotype in PMNH.

773. ***Cercyonis oetus*** (Boisduval, 1869)

a. ***Cercyonis oetus charon*** (W. H. Edwards, 1872)

Trans. Am. Entomol. Soc. 4(1/2): 61, 69, no. 9; figured by W. H. Edwards (1895), Butts. N. Am. 3(16): pl. Satyrus 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Satyrus Charon*

**Type Locality:** "near the Twin Lakes, in Upper Arkansas Valley, (elevation 8000 feet)...throughout the entire Park and mountain country" [Colorado]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 368, fig. 14 ♂ D&V; paralectotypes figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 63, figs. 24 ♀ V, 25 ♂ D.

b. ***Cercyonis oetus phocus*** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 14-15.

**Original Combination:** *Satyrus Phocus*

**Type Locality:** "Lake Labache [*sic*!], British Columbia" [Lake Lahache]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 370, fig. 15 ♂ D&V.

c. ***Cercyonis oetus oetus*** (Boisduval, 1869)

Annls. Soc. Entomol. Belg. 12: 63, no. 62; figured by Oberthür (1914), Étud. Lépid. Comp. 9(2): pl. 264, figs. 2203 ♂ D&V, 2204 ♀ D&V (lectotype).

**Original Combination:** *Satyrus Oetus*

**Type Locality:** "dans les lieux rocailleux des montagnes"; defined as "west slope of Mt. Judah, south-southeast of Donner Pass, Placer County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 35.

**Types:** Lectotype in USNM, designated by F. Brown [1966], J. Res. Lepid. 4(2): 142-143, fig. 4 ♀ D&V; figured by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): figs. 267 ♀ D, 268 ♀ V.

d. ***Cercyonis oetus pallescens*** T. Emmel & J. Emmel, 1971

Pan-Pac. Entomol. 47(2): 155-157.

**Original Combination:** *Cercyonis oetus pallescens*

**Type Locality:** "Reese River Valley, 4 road miles northeast of Reese River crossing on Nevada Highway 2 [now 722], 5,700 ft. elevation, westsouthwest Austin, southwest corner of T. 19 north, R. 43 east, Lander County, Nevada"

**Types:** Holotype in MGCL.

e. ***Cercyonis oetus alkalorum*** Austin, 1998

Syst. W. N. Am. Butts. (46): 579, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V.



**Original Combination:** *Cercyonis oetus alkalorum*

**Type Locality:** "Nevada: Nye County; Big Smoky Valley, north end of Alkali Flat, Northumberland Mine Road, 1.5-1.7 road miles east of Nevada State Route 376, 1676 m, T14N F43E S1 on USGS Millett Ranch, Nev. 15' quadrangle"

**Types:** Holotype in MGCL.

Subtribe **Pronophilina** Reuter, 1896

Acta Soc. Sci. fenn. 22(1): 371 (as "Pronophilidi"). Type-genus: *Pronophila* E. Doubleday, [1849], in: Gen. diurn. Lepid. (1)(31): pl. 60, figs. 1, 2, 3. This is a tentative placement for the genus *Gyrocheilus*.

Genus **Gyrocheilus** Butler, 1867

Ann. Mag. Nat. Hist. (3)20(118): 267, fig. 3. Type-species: *Pronophila patrobas* Hewitson, 1862, Trans. Entomol. Soc. Lond. (3)1[11](1): 16, pl. 6, figs. 40, 41, by original designation.

\*774. **Gyrocheilus patrobas** (Hewitson, 1862)

Trans. Entomol. Soc. Lond. (3)1[11](1): 16, no. 38, pl. 6, figs. 40 ♂ D, 41 ♂ V.

**Original Combination:** *Pronophila Patrobas*

**Type Locality:** "Mexico"

**Types:** Syntypes in BMNH.

a. **Gyrocheilus patrobas tritonia** (W. H. Edwards, 1874)

Trans. Am. Entomol. Soc. 5(1): 18; figured by W. H. Edwards (1889), Butts. N. Am. 3(7): pl. Gyrocheilus 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Geirochilus* [sic] *Tritonia*

**Type Locality:** "White Mountains, Arizona"

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 410, fig. 34, ♂ D&V.

Subtribe **Erebiina** Tutt, 1896

Entomol. Rec. & J. Var. 7(12): 301 (as "Erebiinae" "Erebiidi"). Type-genus: *Erebia* Dalman, 1816, K. svenska VetenskAkad. Handl. 37(1): 58. I.C.Z.N. *Opinion 506* placed Erebiinae on the *Official List of Family-Group Names in Zoology* as name no. 215. This entry was not specifically mentioned in I.C.Z.N. *Opinion 506*, however it is senior to the entry in that *Opinion*: Tutt (1896), Brit. Butts.: 87, 402. An application must be made to the I.C.Z.N. to correct the *Official List* and *Index* (Code Article 79.5).

Genus **Erebia** Dalman, 1816

K. svenska VetenskAkad. Handl. 37(1): 58. Type-species: *Papilio ligea* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 97, by original designation. I.C.Z.N. *Opinion 506* placed this name on the *Official List of Generic Names in Zoology* as name no. 1255.

= ‡*Epigea* Hübner, [1819]

Verz. bekannt. Schmett. (4): 62. Type-species: *Papilio ligea* Linnaeus, 1758, Syst. Nat. (ed. 10) 1: 473, no. 97, by designation of Hemming (1933), Entomol. 66(9)[844]: 198. A junior objective synonym of *Erebia*. I.C.Z.N. *Opinion 506* placed this name on the *Official Index of Rejected and Invalid Generic Names in Zoology* as name no. 1143.

= *Syngea* Hübner, [1819]

Verz. bekannt. Schmett. (4): 62. Type-species: *Papilio pronoe* Esper, 1780, Die Schmett. 1(2)(1): 23-24, pl. 54 (cont. 4), fig. 1, by designation of Hemming (1933), Entomol. 66(9)[844]: 198.

= *Phorcis* Hübner, [1819]

Verz. bekannt. Schmett. (4): 62. Type-species: *Phorcis epistygne* Hübner, [1819], Verz. bekannt. Schmett. (4): 62, no. 591, by designation of Hemming (1933), Entomol. 66(9)[844]: 198.

= *Marica* Hübner, [1819]

Verz. bekannt. Schmett. (4): 63. Type-species: *Papilio stygne* Ochsenheimer, 1807, Schmett. Europa 1(1): 276, no. 52 (= *Papilio meolans* (1868), Entomol. Pedemont.: 71; synonym), by designation of Hemming (1933), Entomol. 66(9)[844]: 198.

= *Gorgo* Hübner, [1819]

Verz. bekannt. Schmett. (4): 64. Type-species: *Papilio ceto* Hübner, [1804], Samml. Europ. Schmett. 1: pl. 112, figs. 578, 579 (= *Papilio alberganus* de Prunner, 1798, Lepid. Pedemont.: 71; synonym), by designation of Hemming (1933), Entomol. 66(9)[844]: 198.

= ‡*Oreina* Westwood, 1841

In: Brit. Butts. Transf. (ed. 1): 76. Type-species: *Papilio cassiope* Fabricius, 1787, Mantissa Ins. 2: 42, no. 417, by designation of Butler (1868), Entomol. Mon. Mag. 4(9): 194. Preoccupied by *Oreina* Chevrolet, 1835, in: Dejean, Cat. Coléopt. (ed. 2): 402.

= *Medusia* Verity, 1953

Le Farfalle diurn. d'Italia 5: 179. Type-species: *Papilio medusa* [Schiffermüller], 1775, Ankündigung eines syst. Werkes Schmett. Wiener Gegend: 167, by original designation.

= *Triaria* Verity, 1953

Le Farfalle diurn. d'Italia 5: 186. Type-species: *Papilio triarius* de Prunner, 1798, Lepid. Pedemont.: 70, by original designation.

= *Truncaefalcia* Verity, 1953

Le Farfalle diurn. d'Italia 5: 188. Type-species: *Papilio aethiops* Esper, 1777, Die Schmett. 1(1)(5): pl. 25, fig. 30; (9): 308-309, by original designation.

= ‡*Simplicia* Verity, 1953

Le Farfalle diurn. d'Italia 5: 194. Type-species: *Papilio epiphron* Knoch, 1783, Beitr. Insektengesch. 3: 131, no. 3, pl. 6, fig. 7, by

original designation. Preoccupied by *Simplicia* Guenée, 1854, Spec. gén. Lépid. 8: 51.

= *Simplospinosia* Verity, 1957

Entomol. Rec. & J. Var. 69(10): 225. Type-species: *Papilio ephron* Knoch, 1783, Beitr. Insektengesch. 3: 131, no. 3, pl. 6, fig. 7, as a replacement name. Proposed to replace *Simplicia* Verity, 1953, preoccupied (Code Articles 60.3, 67.8).

vidleri group B. Warren, 1936

Monogr. Erebia: 128.

775. **Erebia vidleri** Elwes, 1898

Trans. Entomol. Soc. Lond. (4)1898[46](2): 179, no. 2, 195; ♂ genitalia figured by Chapman (1898), Trans. Entomol. Soc. Lond. (4)1898[46](2): pl. 5, figs. 4a, 4b, 4c.

**Original Combination:** *Erebia vidleri*

**Type Locality:** "the mountains above Seton Lake, near Lilloet [*sic*] on the Fraser river, British Columbia" [Lillooet]

**Types:** Holotype (#3554) in BMNH.

triarius group B. Warren, 1936

Monogr. Erebia: 153.

776. **Erebia rossii** (J. Curtis, 1835)

a. **Erebia rossii ornata** Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 50, no. 18.

**Original Combination:** *Erebia rossii* race *ornata*

**Type Locality:** "Churchill...Churchill region of the Hudson Bay country" [west shore of Hudson Bay, 58° N, Manitoba]

**Types:** Holotype in OSU; paratypes figured by dos Passos (1949), Am. Mus. Novit. (1389): figs. 13 ♂ D, 14 ♂ V, 15 ♀ D, 16 ♀ V.

b. **Erebia rossii rossii** (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxvii, no. 12, pl. A, fig. 7 ♂ V.

**Original Combination:** [*Hipparchia*] *Rossii*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a copy of a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N Lat. and 91.52°-93.0° W Long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Syntypes in USNM.

= ♂ "anocellus" Scott, 1981

*Papilio* (n.s.) 1: 4.

**Original Combination:** *Erebia rossii* form *anocellus*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

= ♂ "brucei" Scott, 1986

Butts. N. Am.: 243, no. 113.

**Original Combination:** *Erebia rossii* form *brucei*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*. This is a case of Scott proposing a "form" name to correspond with an already named "form" of another species.

c. **Erebia rossii gabrieli** dos Passos, 1949

Am. Mus. Novit. (1389): 12-16, figs. 17 ♂ D, 18 ♂ V; 19 ♂ D, 20 ♂ V (holotype); 21 ♂ D, 22 ♂ V, 23 ♀ D, 24 ♀ V, 25 ♀ D, 26 ♀ V, 27 ♀ D, 28 ♀ V.

**Original Combination:** *Erebia rossii gabrieli*

**Type Locality:** "Mount McKinley Park, 3500 feet, Alaska"

**Types:** Holotype in AMNH.

d. **Erebia rossii kuskokuima** W. Holland, 1931

Butt. Book (rev. ed.): 203, pl. 61, figs. 21 ♂ D, 22 ♀ D, 23 ♀ V (syntypes).

**Original Combination:** *Erebia rossii* [*sic*] Var. *kuskoquima*

**Type Locality:** "Kuskoquim Valley"; defined as "Bethel, about 20 miles up the Kuskoquim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.

**Types:** Syntypes in CMNH.

embla group B. Warren, 1936

Monogr. Erebia: 164.

\*777. **Erebia disa** (Thunberg, 1791)

Diss. Ins. Svecica (2): 37, pl. 2, figs. 6, [6a] ♂ D&V.

**Original Combination:** *Papilio Disa* [*P[apilio]*]. *n[ymphalis]*. *g[emmata]*.

**Type Locality:** "in Lapponia"; defined as "Sweden: Lappland" by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 443.

**Types:** Lectotype at UZIU, designated by Karsholt and Nielsen (1986), Entomol. Scand. 16(4): 443, fig. 3 ♀ D.

= *gesion* (Quensel, 1791)

K. Vetensk. Akad. Nya Handl. 12(3): 270-272, no. 2, pl. 9, figs. 3 ♀ D, 4 ♀ V, 5 ♂ D, 6 ♂ V; cited Ernst (1780), Pap. Europ.: pl. 65, fig. 42.

**Original Combination:** *P[apilio]*. *N[ymphalis]*. *G[emmata]*. *Gesion*

**Type Locality:** "In Lapponia Tornoensi maxime boreali ad Enontäkis" [Tornio and Enontekiö, Lappland, Finland]

**Types:** Location of type(s) not known.



- = *griela* (Fabricius, 1793)  
Entomol. Syst. 3(1): 236, no. 737.  
**Original Combination:** *P[apilio]. S[atyni]. Griela*  
**Type Locality:** "in Lapponiae summis alpihus de Paykull" [Lapland, Norway and Sweden]  
**Types:** Syntype in ZMUC.
- = *stheno* (Hübner, 1804)  
Samml. europ. Schmett. 1: 36, pl. Pap. 49, figs. 228 ♀ D, 229 ♀ V.  
**Original Combination:** [*Papilio*] *Stheno*  
**Type Locality:** Not stated.  
**Types:** Type(s) probably lost.
- a. ***Erebia disa steckeri*** W. Holland, 1930  
Trans. Am. Entomol. Soc. 56(3): 153; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Erebia steckeri*  
**Type Locality:** "Kuskoquim River, Alaska...at the Moravian Mission"; suggested to be "Bethel, about 20 miles up the Kuskoquim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.  
**Types:** Syntypes in CMNH; one figured by Howe (1975), Butts. N. Am.: pl. 16, fig. 13 ♂ D&V.
- b. ***Erebia disa subarctica*** McDunnough, 1937  
Can. Entomol. 69(1): 16-17.  
**Original Combination:** *Erebia disa* var. *subarctica*  
**Type Locality:** "Mackenzie Delta, N. W. T." [Northwest Territories]  
**Types:** Holotype (#4118) in CNC.
- 778. ***Erebia mancinus*** E. Doubleday, [1849]  
In: Gen. diurn. Lepid. (1): pl. 64, fig. 2; 2(43): 380 (Westwood, 1850).  
**Original Combination:** *Erebia Mancinus*  
**Type Locality:** "Rocky Mountains"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.  
**Types:** Lectotype (#3581) in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 42, figs. 3♀ D, 4 ♀ V.  
Layberry *et al.* (1998), Butts. Can.: 221, elevated this taxon to the species-level, based on wing and genitalic characters.

magdalena group B. Warren, 1936

Monogr. Erebia: 175; revised by Hilchie (1990), Quaest. Entomol. 26(4): 673.

- 779. ***Erebia magdalena*** Strecker, 1880
  - a. ***Erebia magdalena magdalena*** Strecker, 1880  
Bull. Brooklyn Entomol. Soc. 3(5): 25.  
**Original Combination:** *Erebia Magdalena*  
**Type Locality:** "some almost inaccessible place on the mountains near Georgetown, Colorado" [Clear Creek County]  
**Types:** Syntypes in FMNH.
  - b. ***Erebia magdalena saxicola*** Hilchie, 1990  
Quaest. Entomol. 26(4): 684, figs. 1 ♀ VHW surface, 2 ♂ VHW surface, 4 ♀ live photograph, 31 ♂ genitalia, 32, 32a ♂ valve, 33, 33a ♂ valve, 41 antennal club (many life history figures).  
**Original Combination:** *Erebia magdalena saxicola*  
**Type Locality:** "Adams Lookout, Alberta Forestry Service, Wilmore Wilderness Park, 43 km southeast of Grande Cache, Alberta, Canada"  
**Types:** Holotype in CNC.
- 780. ***Erebia mackinleyensis*** Gunder, 1932  
Can. Entomol. 64(12): 278.  
**Original Combination:** *Erebia mackinleyensis*  
**Type Locality:** "Sable Pass, Mckinley National Park, Alaska" [Denali National Park]  
**Types:** Holotype in AMNH.  
Hilchie (1990), Quaest. Entomol. 26(4): 673, considered this a species-level taxon.
- 781. ***Erebia fasciata*** Butler, 1868
  - a. ***Erebia fasciata fasciata*** Butler, 1868  
Cat. Sat. Brit. Mus.: 92, pl. 2, fig. 8 ♂ V.  
**Original Combination:** *Erebia Fasciata*  
**Type Locality:** "Arctic America"; defined as "Winter Cove, Cambridge Bay" by Elwes (1898), Trans. Entomol. Soc. Lond. (4)1898[46](2): 183. [Northwest Territories]  
**Types:** Lectotype in BMNH, designated by B. Warren (1936), Monogr. Erebia: pl. 76, figs. 995 ♂ D, 1001 ♂ V, as "type." W. Holland (1930), Trans. Am. Entomol. Soc. 56(3): 149, noted that two of the nine original "types" are in CMNH, which he subsequently figured in (1931), Butt. Book (rev. ed.): pl. 61, figs. 5 ♂ D, 6 ♀ V.  
= ♀ "suffusa" B. Warren, 1936  
Monogr. Erebia: 180, genitalia pl. 35, fig. 329, pl. 77, fig. 1006 ♂ V (lectotype).  
**Original Combination:** [*Erebia fasciata fasciata*] ab. *suffusa*  
**Type Locality:** Not specifically stated; "lectotype" from "Bernhard Harbour, north coast, North-West Territories."  
**Types:** "Lectotype" in CNC, designated (as holotype) by McDunnough (1937), Can. Entomol. 69(1): 17.
  - b. ***Erebia fasciata avinoffi*** W. Holland, 1930  
Trans. Am. Entomol. Soc. 56(3): 151-152.



**Original Combination:** *Erebia avinoffi*

**Type Locality:** "Kotzebue Sound, Alaska"

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, fig. 7 ♀ D.

medusa group B. Warren, 1936

Monogr. Erebia: 182.

782. ***Erebia epipsodea* Butler, 1868**

The synonymy below follows Layberry *et al.* (1998), Butts. Can.: 227.

a. ***Erebia epipsodea brucei* Elwes, 1889**

Trans. Entomol. Soc. Lond. (4) 1889[37](2): 326, 334-335.

**Original Combination:** [*Erebia epipsodea*] ? var. *brucei*

**Type Locality:** "Summit County, Colorado, 12,000 ped...Cashier Valley, Summit County, Colorado, at 12,000 feet"

**Types:** Holotype in BMNH.

= *rhodia* W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 266, 273-274, no. 14; figured by W. H. Edwards (1890), Butts. N. Am. 3(9): pl. Erebia 3, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V, 5 ♂ D (as *epipsodea*).

**Original Combination:** *Erebia Rhodia*

**Type Locality:** "Colorado"; suggested to be "Fairplay" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161. [Park County]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 406, fig. 32 ♂ D&V.

This name is a secondary homonym of *Melampias rhodia* Hübner, [1819], Verz. bekannt. Schmett. (4): 63, no. 611, which currently is a synonym of *Erebia epiphron aetherius* (Esper, 1805) Die Schmett. 1(suppl.) (2) (11): pl. 122, fig. 3, 4.

b. ***Erebia epipsodea epipsodea* Butler, 1868**

Cat. Sat. Brit. Mus.: 80, pl. 2, fig. 9 ♂ V.

**Original Combination:** *Erebia Epipsodea*

**Type Locality:** "Rocky Mountains"; suggested to be "vic. Banff, Alberta" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199; defined as "Rock Lake, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

**Types:** Holotype (#3582) in BMNH; figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1) (6): figs. 1A ♀ D, 1B ♀ V.

= *hopfingeri* P. Ehrlich, 1954

J. Kans. Entomol. Soc. 27(2): 80; figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1) (6): figs. 2E ♂ D, 3E ♂ V (holotype); 2D ♀ D, 3D ♀ V.

**Original Combination:** *Erebia epipsodea hopfingeri*

**Type Locality:** "Black Canyon 1000 feet, South of Methow, Okanogan County, Washington"

**Types:** Holotype in AMNH.

c. ***Erebia epipsodea sineocellata* Skinner, 1889**

Can. Entomol. 21(12): 239.

**Original Combination:** *Erebia sine-ocellata*

**Type Locality:** "Fort Qu'Appelle...(thirty miles north of an old Hudson Bay Post called Fort Qu'Appelle)" [Saskatchewan]

**Types:** Syntype (#7042) in ANSP.

This name was available as originally described, not infrasubspecific as sometimes considered (*e.g.*, L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199).

= *freemani* P. Ehrlich, 1954

J. Kans. Entomol. Soc. 27(2): 80; figured by Ehrlich (1955), Univ. Kans. Sci. Bull. 37(1) (6): figs. 2G ♂ D, 3G ♂ V (holotype); 2H ♀ D, 3H ♀ V.

**Original Combination:** *Erebia epipsodea freemani*

**Type Locality:** "Lloydminster, Alberta"; defined as "the vicinity of Rivercourse, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

**Types:** Holotype in AMNH.

d. ***Erebia epipsodea remingtoni* P. Ehrlich, 1952**

Entomol. News 63(9): 225-229.

**Original Combination:** *Erebia epipsodea remingtoni*

**Type Locality:** "Dawson, Yukon Territory"

**Types:** Holotype in CMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, fig. 27 ♂ V (holotype), fig. 24 ♀ D.

edda group B. Warren, 1936

Monogr. Erebia: 198.

783. ***Erebia discoidalis* (W. Kirby, 1837)**

a. ***Erebia discoidalis discoidalis* (W. Kirby, 1837)**

In: Richardson, Fauna Bor-Am. [4]: 298, no. 2, pl. 3, figs. 2 ♂ D, 3 ♂ V.

**Original Combination:** *Hipparchia Discoidalis*

**Type Locality:** "Cumberland-house, Lat. 54°" [Saskatchewan]

**Types:** Type(s) may be lost or in NMID, not in BMNH.

= *medunoughi* dos Passos, 1940

Am. Mus. Novit. (1053): 1-2.

**Original Combination:** *Erebia discoidalis medunoughi*

**Type Locality:** "White Horse, Alaska [sic]" [Whitehorse, Yukon]

**Types:** Holotype in AMNH.

Spelled "macdunnougi" by dos Passos (1958), Proc. Int. Congr. Entomol. 10(Montreal 1956) 1: 678; this is an unjustified emendation.

alberganus group B. Warren, 1936  
Monogr. Erebia: 217.

\*784. **Erebia pawloskii** Ménétriés, 1859

Bull. class. phys. math. Acad. Imp. Sci. St. Petersburg (ser. 2) 17(416/32): 498-499, no. 14.

**Original Combination:** *Erebia Pawloskii*

**Type Locality:** "près de la rivière Grande Sibagli" [in Basin of the Ugur River, a tributary of the Aldan River, Sakha Republic, Russia]

**Types:** Type(s) probably in ZIN.

There have been various misspellings of this name but the original orthography must stand even though it is obvious that the name is a patronym of Pavlovsk. This species in North America was formerly but incorrectly called *Erebia theano* (Tauscher, 1809) by most previous authors. Various Russian researchers (e.g., Gorbunov (2001), Butts. Russia Class.: 255) have shown that *E. pawloskii* and *E. theano* are distinct species-level taxa, and that *E. pawloskii* is the North American taxon.

= *herzi* Christoph, 1889

Hor. Soc. Entomol. Ross. 23(1/2): 299, no. 2.

**Original Combination:** *Erebia Herzi*

**Type Locality:** "Mittleres Lena-Gebiet...mittleren Lena" [Sakha Republic, Russia]

**Types:** Syntypes possibly in BMNH.

= *sajana* Staudinger, 1895

Deut. Entomol. Z. "Iris" 7(2): 244-246.

**Original Combination:** *Er[ebia]. Pawloskyi* [sic] var. *Sajana*

**Type Locality:** "Ost-Sajan Gebiet...Munku Sardyk-Gebirge" [Republic of Buryatia, Russia]

**Types:** Type(s) probably at ZMHB.

= ♀ "ultima" B. Warren, 1931

Entomol. Rec. & J. Var. 43(11): 171; figured by B. Warren (1936), Monogr. Erebia: pl. 83, figs. 1154 ♂ D, 1155, 1161 ♂ V, 1162.

**Original Combination:** *E[rebia]. theano* ssp. *pawloskii* ab. *ultima*

**Type Locality:** "E. Sajan mountains"; "type" from "Tunkun Mountains, Irkutsk" [Republic of Buryatia, Russia]

**Types:** "Holotype" in BMNH.

= ♀ "penultima" B. Warren, 1936

Monogr. Erebia: 239.

**Original Combination:** *Erebia theano pawloskii* ab. *penultima*

**Type Locality:** Not stated.

**Types:** "Holotype" presumably in BMNH.

= ♀ "aequalis" B. Warren, 1936

Monogr. Erebia: 239, pl. 83, figs. 1152 ♂ D, 1153 ♂ V (holotype); 1160.

**Original Combination:** *Erebia theano pawloskii* f. *aequalis*

**Type Locality:** Not stated in text; "holotype" from "East Sayan Mountains." [Republic of Buryatia, Russia]

**Types:** "Holotype" in BMNH.

a. **Erebia pawloskii alaskensis** W. Holland, 1900

Entomol. News 11(3): 387, no. 20.

**Original Combination:** *E[rebia]. sofia* var. *alaskensis*

**Type Locality:** "Eagle City, Alaska...American Creek, Alaska"

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, figs. 13 ♂ D, as "holotype"; 14 ♂ V, 15 ♀ V (paralectotypes).

b. **Erebia pawloskii canadensis** B. Warren, 1931

Entomol. Rec. & J. Var. 43(11): 172.

**Original Combination:** [*Erebia theano*] *canadensis*

Proposed to replace *Erebia sofia* Strecker, 1931, preoccupied, with the same data (Code Article 60.3).

= ♀ *sofia* Strecker, 1880

Bull. Brooklyn Entomol. Soc. 3(5): 35.

**Original Combination:** *Erebia Sofia*

**Type Locality:** "a considerable distance above Fort Churchill on west coast of Hudson's Bay" implied from the description of *Colias hela*.

**Types:** Holotype in FMNH.

Preoccupied by *Papilio sophia* Acerbi, 1802, Trav. North Cape 2: 254.

= ♀ "churchillensis" B. Warren, 1936

Monogr. Erebia: 387-388.

**Original Combination:** *Erebia theano canadensis* ♀ f. *churchillensis*

**Type Locality:** "Fort Churchill" [Manitoba]

**Types:** "Holotype" in BMNH.

c. **Erebia pawloskii ethela** W. H. Edwards, 1891

Can. Entomol. 23(2): 31.

**Original Combination:** *Erebia Ethela*

**Type Locality:** "Yellowstone Park"; lectotype from "Trout Creek, Yellowstone National Park." [Wyoming]

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402-403, fig. 31 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, fig. 10 ♂ V.

d. ***Erebia pawloskii demmia*** B. Warren, 1936

Monogr. Erebia: 235-236.

**Original Combination:** *E[rebia]. theano demmia*

**Type Locality:** "San Juan Mountains of Colorado: north Ridge Chicago Basin Trail, La Plata Co., and South Ridge of same, both at altitudes of 12,500 ft.; somewhat lower in the Chicago Basin at 12,000 ft.; on the Chicago Basin Trail between 10,700 and 11,000 ft.; the Columbine Pass at 12,500 ft., and one female from the Treasure Mountain, Mineral Co., at 12,000 ft."

**Types:** Holotype in AMNH.

785. ***Erebia youngi*** W. Holland, 1900

Scott (1986), Butts. N. Am.: 245, no. 120, considered *E. youngi* to be the North American representative of *E. dabanensis* Ershov, 1872, Horae Soc. Entomol. Ross. 8(4): 315-316, no. 2. Troubridge and Philip (1983), J. Res. Lepid. 21(2): 107-146, detailed reasons for considering them separate species, and Belik and Zamolodchikov (2002), Nota Lepid. 25(1): 61-78, corroborated the species-level status of *E. youngi*.

a. ***Erebia youngi herscheli*** Leussler, 1935

Bull. Brooklyn Entomol. Soc. 30(2): 51, no. 20.

**Original Combination:** *Erebia herscheli*

**Type Locality:** "Herschel Island" [Beaufort Sea, Yukon]

**Types:** Holotype in AMNH.

b. ***Erebia youngi youngi*** W. Holland, 1900

Entomol. News 11(3): 388, no. 21; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, fig. 28 ♂ D (lectotype).

**Original Combination:** *E[rebia]. youngi*

**Type Locality:** "mountains between Forty-Mile and Mission Creeks, N. E. Alaska"

**Types:** Lectotype in CMNH, designated by dos Passos (1972), Entomol. Rec. & J. Var. 84(10): 239; paralectotype figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 61, figs. 29 ♀ D, 30 ♀ D.

c. ***Erebia youngi rileyi*** dos Passos, 1947

Am. Mus. Novit. (1348): 3-4.

**Original Combination:** *Erebia youngi rileyi*

**Type Locality:** "McKinley Park, Alaska"

**Types:** Holotype in AMNH; figured by Troubridge and Philip (1983), J. Res. Lepid. 21(2): figs. 9 ♂ D, 10 ♂ V, 46c ♂ genitalia.

786. ***Erebia lafontainei*** Troubridge & Philip, 1983

J. Res. Lepid. 21(2): 130-133, figs. 21 ♂ D, 22 ♂ V (holotype); 23 ♀ D, 24 ♀ V, 35a ♂ V, b ♀ V, 48a-d, ♂ genitalia.

**Original Combination:** *Erebia lafontainei*

**Type Locality:** "Yukon: St. Elias Mts., Mt. Decoeli, 1300m"

**Types:** Holotype in CNC.

Scott (1986), Butts. N. Am.: 245-246, no. 121, considered *lafontainei* to be the North American representative of *E. kozhantshikovi* Sheljuzhko, 1925, Entomol. Anz. 5(2): 9-10, no. 3, without justification.

787. ***Erebia occulta*** Roos & Kimmich, 1983

a. ***Erebia occulta occulta*** Roos & Kimmich, 1983

Entomol. Z. 93(6): 69-75, figs. 1 ♂ D&V (holotype), fig. 4a ♂ genitalia, fig. 5a ♂ valve.

**Original Combination:** *Erebia occulta*

**Type Locality:** "Kanada, Yukon, Dempster Highway km 150"

**Types:** Holotype in Kimmich, Siepe and Roos collection.

Korshunov and Gorbunov (1995), Butts. Asiatic Russia: 128, no. 268, noted that this taxon is a species distinct from *E. anyuica* Kurentsov, 1966, with both taxa occurring in the Far East (Magadan). This situation was detailed by Belik and Zamolodchikov (2002), Nota Lepid. 25(1): 61-78.

= *phellea* Troubridge & Philip, 1983

J. Res. Lepid. 21(2): 118-123, figs. 25 ♂ D, 26 ♂ V (holotype); 27 ♀ D, 28 ♀ V, 29 ♂ V, 30 ♀ V, 31 ♂ V, 37a ♂ V, b ♀ V, 50a-d ♂ genitalia, 51a-c ♂ genitalia (c holotype), 52-55 ♂ valvae.

**Original Combination:** *Erebia phellea*

**Type Locality:** "Alaska: Seward Peninsula, km 66-68 Council Rd., 9-11 km NNE of Solomon (64.63N, 164.37W), 60-80 m"

**Types:** Holotype in USNM.

pluto group B. Warren, 1936

Monogr. Erebia: 247.

788. ***Erebia callias*** W. H. Edwards, 1871

a. ***Erebia callias callias*** W. H. Edwards, 1871

Trans. Am. Entomol. Soc. 3(3/4): 266, 274, no. 15.

**Original Combination:** *Erebia Callias*

**Type Locality:** "Colorado"; suggested to be "Mosquito Pass" and probably "Mt. Elbert and La Plata Peak just to the south of it" by F. Brown (1934), J. N. Y. Entomol. Soc. 42(2): 161; further defined as "[Mosquito Pass, Park Co.]" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 199.



**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 408, fig. 33 ♂ D&V. W. Holland (1931), Butt. Book (rev. ed.): 205, pl. 25, fig. 20 ♂ D, figured the "type." Brown (1964), *ibid.*, was unable to locate this specimen, so designated a different specimen as lectotype.

= *†"sinocho"* Scott, 1981

*Papilio* (n.s.) 1: 3.

**Original Combination:** *Erebia callias* form *sinocho*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*.

= *†"brucei"* Scott, 1986

Butts. N. Am.: 246, no. 123.

**Original Combination:** [*Erebia callias*] form *brucei*

Proposed as a "form" with no nomenclatural standing; a *nomen nudum*. This is a case of Scott proposing a "form" name to correspond with an already named "form" of another species.

Subtribe *Satyrina* Boisduval, [1833] (1820)

Genus *Neominois* Scudder, 1875

Bull. Buffalo Soc. Nat. Sci. 2(4): 237, 241, no. 2. Type-species: *Satyrus ridingsii* W. H. Edwards, 1865, Proc. Entomol. Soc. Philad. 4(1): 201-202, by original designation.

789. *Neominois ridingsii* (W. H. Edwards, 1865)

a. *Neominois ridingsii ridingsii* (W. H. Edwards, 1865)

Proc. Entomol. Soc. Philad. 4[1]: 201-201, no. 2; figured by W. H. Edwards (1893), Butts. N. Am. 3(14): pl. Neominois 1, figs. 1 ♂ D, 2 ♂ V, 3 ♂ D, 4 ♂ V, 5 ♀ D, 6 ♀ V.

**Original Combination:** *Satyrus Ridingsii*

**Type Locality:** "Burlington, Boulder Co., Colorado Territory" [now Longmont]; neotype from "Loveland, Colo." [Larimer County, Colorado]

**Types:** Neotype in MGCL, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 357, fig. 10 ♀ D&V.

b. *Neominois ridingsii wyomingo* (Scott, 1998)

*Papilio* (n.s.) 11: 1-2, fig. 1 ♂ D (holotype), 2 ♀ D.

**Original Combination:** *Hipparchia (Neominois) ridingsii wyomingo*

**Type Locality:** "6 miles WNW Midwest, along I-25, Natrona Co. Wyo." [Wyoming]

**Types:** Holotype in BMNH.

The original description of this taxon suggested that it might be a species-level entity, as it was treated by Opler (1999), Field Guide W. Butts.: 363. Alternatively, it may be genetically identical to *N. r. ridingsii*, and might be considered a synonym of that taxon. Until additional studies on the status of *wyomingo* are completed, it is tentatively listed as subspecies of *N. ridingsii*.

c. *Neominois ridingsii minimus* Austin, 1986

Bull. Allyn Mus. (107): 14-16, figs. 4a D, 4b V (holotype bottom left).

**Original Combination:** *Neominois ridingsii minimus*

**Type Locality:** "Canada: Sakatchewan: Moose Jaw, north side of city, 50 24' N, 105 30' W"

**Types:** Holotype in MGCL.

d. *Neominois ridingsii neomexicanus* Austin, 1986

Bull. Allyn Mus. (107): 16-19, figs. 5a D, 5b V (holotype top left).

**Original Combination:** *Neominois ridingsii neomexicanus*

**Type Locality:** "New Mexico: Cibola County; Cibola National Forest, Zuni Mountains, Bluewater Canyon, 7800"

**Types:** Holotype in MGCL.

e. *Neominois ridingsii stretchii* (W. H. Edwards, 1870)

Trans. Am. Entomol. Soc. 3(2): 189, 192-193, no. 6.

**Original Combination:** *Chionobas Stretchii*

**Type Locality:** "Nevada"; neotype from "Mt. Jefferson. Nye Co., Nevada."

**Types:** Types destroyed in the 1906 San Francisco earthquake and fire; neotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 358-359, fig. 11 ♂ D&V. Burdick (1942), Can. Entomol. 74(11): 205, designated "neotypes." This designation was not in accordance with Code Articles 75.2 and 75.3.

= *dionysus* Scudder, 1878

Bull. U. S. Geol. Geogr. Surv. Terr. 4(1)(10): 254.

**Original Combination:** *Neominois dionysus*

**Type Locality:** "Juniper Mountains...Mount Trumbull"; defined as "the wooded portion of Hurricane Ridge east of the L. A. Iverson Ranch about 5 miles north of Trumbull P. O., Mohave Co. Arizona" by F. Brown (1967), J. Lepid. Soc. 21(2): 133-134.

**Types:** Syntypes (#1624) in MCZ.

= *ashtaroth* (Strecker, [1878])

Lepid. Rhop. Het. (14): 129.

**Original Combination:** *Satyrus Ashtaroth*

**Type Locality:** "Arizona"

**Types:** Holotype in FMNH.

f. *Neominois ridingsii pallidus* Austin, 1986

Bull. Allyn Mus. (107): 10-14, figs. 3a D, 3b V (holotype top left).

**Original Combination:** *Neominois ridingsii pallidus*

**Type Locality:** "Nevada: Mineral County; Alkali Valley, Larkin Dry Lake Road, 4.8 road miles north of Nevada State Route 359 (formerly State Route 31), 7000', R28E, T4N, S12 on Aurora Nev.-Calif., 15' quadrangle. The area is a sandy flat valley"

**Types:** Holotype in MGCL.

Genus **Oeneis** Hübner, [1819]

Verz. bekannt. Schmett. (4): 58. Type-species: *Papilio norma* Thunberg, 1791, Ins. Suec. (2): 36-37, pl. 2, figs. 11, [11a], by designation of Butler (1868), Entomol. Mon. Mag. 4(9): 196.

Subgenus **Oeneis** Hübner, [1819]

= *Chionobas* Boisduval, [1833]

Icon. Hist. Lépid. Europ. 1(18): 182. Type-species: *Papilio aello* Hübner, [1804], Samml. europ. Schmett. 1: 24, pl. Pap. 102, figs. 519, 520, 521 (= *Papilio glacialis* Moll, 1785, in: Schrank and Moll, Naturh. Briefe Oesterreich 1: 102; synonym), by designation of Blanchard (1840), in: Castelnau, Hist. Nat. Ins. 3: 457.

polixenes group Gorbunov, 2001

Butts. Russia Class.: 226.

790. **Oeneis philipi** Troubridge, 1988

Can. Entomol. 120(7): 684-686, figs. 1A ♂ D, 1B ♂ V (holotype); 1C ♀ D, 2D, ♀ D, 9D-F (ovum micropyle), figs. 12, 13A larval head capsules, fig. 14A, 14B.

**Original Combination:** *Oeneis philipi*

**Type Locality:** "Canada, Yukon Territory, km 1 Dempster Highway at Klondike River, 460 m"

**Types:** Holotype in CNC.

Lafontaine (1998), in: Layberry *et al.*, Butts. Can.: 236, suggested that the North American taxon *philipi* is a synonym of *O. rosowi* Kurentsov, 1970, Butts. Far East USSR: 49, key, figure 42(1), 50, fig. 44(6) ♂ genitalia, 73. However, since there are two syntypes of that taxon extant, and V. Lukhtanov (1989), Vestnik Zool. 1989(2): 33-34, considered them to represent two different species, I defer from accepting this synonymy until a lectotype has been designated.

‡"lafontainei" Kral, 1987

News Lepid. Soc. 1987(6): 86.

**Original Combination:** *Oeneis polixenes yukonensis* form "lafontainei"

This name was given in a sales advertisement; a *nomen nudum*.

791. **Oeneis polixenes** (Fabricius, 1775)

a. **Oeneis polixenes katahdin** (Newcomb, 1901)

Entomol. News 12(7): 206; (8): 225-231, pl. 8, 2 ♂ D, 1 ♂ V, 2 ♀ D, 1 ♀ V.

**Original Combination:** *Chionobas katahdin*

**Type Locality:** "Mt. Katahdin"; further defined by Newcomb (1901), Entomol. News 12(8): 226, as "Mt. Katahdin, Maine, at an elevation of 4250 to 5000 ft. above the sea-level." [Penobscot County, Maine]

**Types:** Lectotype (#7783) in ANSP, designated by Fox (1939), Entomol. News 50(8): 213-214; paralectotypes figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, figs. 19 ♂ D, 20 ♀ D.

b. **Oeneis polixenes polixenes** (Fabricius, 1775)

Syst. Entomol.: 484, no. 180.

**Original Combination:** *P[apilio]. D[anaus]. F[estivus]. Polixenes*

**Type Locality:** "America boreali. Mus. Banks"; suggested to be "Labrador" by Troubridge and Parshall (1988), Can. Entomol. 120(7): 679. Defined herein as "Chateau Bay, Labrador coast." Lysaght (1971), J. Banks Newfoundland Labrador: 120-155, detailed Banks' stay in Newfoundland, and the flight period and range of *polixenes* determine that Chateau Bay was the only likely locality where Banks might have collected his sample. [Newfoundland and Labrador]

**Types:** Holotype (#5035) in BMNH.

= *oeno* (Boisduval, [1834])

Icon. Hist. Lépid. Europ. (20): 195-196, no. 7, pl. 39, figs. 4 ♂ D, 5 ♀ D, 6 ♀ V.

**Original Combination:** *Chionobas Oeno*

**Type Locality:** "dans la Laponie russe," a single female "du nord de la Sibérie" (from Escholtz), and two specimens "au Labrador" (from Sommer). [Newfoundland and Labrador]

**Types:** Lectotype is the male (from Labrador) figured by Boisduval, designated by V. Lukhtanov and Eitschberger (2001), Butts. World, Suppl.4: 11, 9d, note 1.

c. **Oeneis polixenes subhyalina** (J. Curtis, 1835)

In: Ross, Voy. Search Northwest Pass., Appendix: lxviii, no. 13.

**Original Combination:** [*Hipparchia*] *Subhyalina*

**Type Locality:** "Arctic Regions"; determined from itineraries in vol. 1 and a copy of a letter from John Ross in vol. 2, Addenda: 732-735, to be the area bounded by 69.30°-70.9° N Lat. and 91.52°-93.0° W Long, in the vicinity of the isthmus of Boothia Peninsula, named by the expedition. [Kitikmeot-Keewatin regions, Nunavut]

**Types:** Holotype in USNM; figured by Howe (1975), Butts. N. America: pl. 7, figs. 13 ♂ D&V.

= *peartiae* (W. H. Edwards, 1897)

Butts. N. Am. 3(17): [407-408], pl. Chionobas 14, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Chionobas Peartiae*



**Type Locality:** "Winter Cove, Cambridge Bay, Victoria Land, lat. 69°, long. 106°" [Northwest Territories]

**Types:** Holotype in CMNH, figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, fig. 21 ♂ D, and F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 399, fig. 29 ♂ D&V.

N. Riley and Gabriel (1924), Cat. Type Spec. Lepid. Rhop. Brit. Mus. 1: 44, listed three syntypes (#3821 ♀ #3822 ♀ #3823 ♂); #3823 is a "pseudotype," the others are syntypes. See F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 400.

d. ***Oeneis polixenes beringianus*** Kurentsov, 1970

Butts. Far East USSR: 49, fig. 41(1) ♂ genitalia, 68, fig. 68(1) map, 73.

**Original Combination:** *O[eneis]. p[olyxenes]. beringianus*

**Type Locality:** "in montane tundra of the Chukotka Peninsula" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** One syntype in the DSM from "E. Chukotka, Chaplina village, Hot Springs landmark"; 16 other syntypes in the IPBV, registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 124, no. 18; a lectotype may be selected from any of these.

Species-genus gender conformation is *beringiana*.

= *tschukotkensis* Kurentsov, 1970

Butts. Far East USSR: 66, fig. 64(2) range map 74, fig. 39(5) ♂ genitalia (as *simulans*).

**Original Combination:** *Oeneis simulans tschukotkensis*

**Type Locality:** "montane tundra of Chukotka (Chaplina Springs)" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Syntypes in the IPBV, registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 124, no. 21.

= *luteus* Troubridge & Parshall, 1988

Can. Entomol. 120(7): 682-683, figs. 7A ♂ D, 7B ♂ V, 7C ♀ D, 7D ♀ V.

**Original Combination:** *Oeneis polixenes luteus*

**Type Locality:** "Canada, British Columbia, Pink Mountain"

**Types:** Holotype in CNC.

This synonymy follows Layberry, *et al.* (1998), Butts. Can.: 235, and personal communications with Troubridge.

e. ***Oeneis polixenes woodi*** Troubridge & Parshall, 1988

Can. Entomol. 120(7): 683-684, figs. 8A ♂ D, 8B ♂ V, 8C ♀ D, 8D ♀ V.

**Original Combination:** *Oeneis polixenes woodi*

**Type Locality:** "Canada, Yukon Territory, Herschel Island"

**Types:** Holotype in CNC.

f. ***Oeneis polixenes yukonensis*** Gibson, 1920

Rept. Can. Arctic Exped. 3(i): 15i-16i, pl. 1, fig. 8 ♂ genitalia, pl. 2, fig. 9 ♂ V (holotype), 10 ♀ D; pl. 4, fig. 3 ♂ D; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 72, fig. 3 ♂ V.

**Original Combination:** *Oeneis brucei* var. *yukonensis*

**Type Locality:** "Klutlan glacier, Yukon Territory, elevation 8,200 feet"

**Types:** Holotype (#836) in CNC.

g. ***Oeneis polixenes brucei*** (W. H. Edwards, 1891)

Can. Entomol. 23(2): 33; figured by W. H. Edwards (1892), Butts. N. Am. 3(13): pl. Chionobas 6, figs. 5 ♂ D, 6 ♂ V, 7 ♀ D, 8 ♀ V.

**Original Combination:** *Chionobas Brucei*

**Type Locality:** "Colorado"; defined as "Vicinity of Bullion and Hayden Mountains in Hall Valley, Park Co., Colorado; 12,000 feet above sea level and higher" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 395-397.

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 400-401, fig. 28 ♂ D&V. W. Holland (1931), Butt. Book (rev. ed.): 198, pl. 27, fig. 7 ♂ D, figured what he called the "type." Brown determined that this is a syntype, but since it was collected in July, not August as cited in the description, it cannot be the lectotype. This may be subject to interpretation.

Troubridge and Parshall (1988), Can. Entomol. 120(7): 683, suggested that *brucei*, *yukonensis* and *woodi* may together represent a species-level taxon.

\*792. ***Oeneis jutta*** Hübner, [1806]

Samml. europ. Schmett. 1: 25, pl. Pap. [120] figs. 614 ♀ D, 615 ♀ V.

**Original Combination:** [*Papilio*] *Papiliones I. Nymphales F. Jutta*

**Type Locality:** "Lappland" [Lapland, Norway and Sweden]

**Types:** Type(s) probably lost.

Various Palearctic "forms" and "aberrations" are not listed in this synonymy.

= *timanica* Sedykh, 1977

Geogr. Aspect. Conserv. Flora Faun. NE Europ. USSR: 103-104, no. 76.

**Original Combination:** *Oeneis jutta timanica*

**Type Locality:** "environs of Ukhta" [Komi Autonomous Republic, Russia]

**Types:** Syntypes in the ZIN.

a. ***Oeneis jutta balder*** (Guérin-Méneville, [1832])

Icones Règne Anim. Cuvier 2(18): pl. 80, figs. 1 ♂ D, 1a ♂ V, 1b head, 1c antenna, 1d club of antenna [1832]; 3: 487 [1844].

**Original Combination:** *Satyrus Balder*

**Type Locality:** "Cap-Nord" in error. [Finmark, Norway]

**Types:** Location of type(s) not known. They are likely the specimens that were subsequently redescribed as *S. balder* by Boisduval [1834], Icon. Hist. Lépid. Europ. (19): 189-190, no. 4; (20): pl. 39, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, and are possibly in BMNH.

Guérin-Méneville described this taxon from Boisduval's collection. Boisduval [1834], *ibid.*, redescribed *S. balder*, giving the type locality as "au Cap-Nord, au Groenland et en Island...Nayn, dans l'Amerique hyperboréennes." Since no populations of *O. jutta* are known to occur in northern Lapland, Greenland or Iceland, the type locality is defined herein as "Nain, Labrador." [Newfoundland and Labrador]



- = *balderi* Geyer, 1837  
 In: Hübner, Zutr. Samml. exot. Schmett. 5: pl. [169], figs. 981 ♂ D, 982 ♂ V [1836]; 43, no. 491 (1837, name given).  
**Original Combination:** *Eumenis Balderi*  
**Type Locality:** "Labrador" [Newfoundland and Labrador]  
**Types:** Location of type(s) not known, probably lost.  
 There is nothing in the original description indicating that this is a misspelling or emendation of *Satyrus balder* Guérin-Ménéville, [1832]. It is retained as an available name.
- b. *Oeneis jutta terraenovae* dos Passos, 1935 (emended)  
 Can. Entomol. 67(4): 84-85.  
**Original Combination:** *Oeneis jutta terrae-novae*  
**Type Locality:** "Doyles Station, Newfoundland" [Newfoundland and Labrador]  
**Types:** Holotype in AMNH.
- c. *Oeneis jutta ascerta* Masters & Sorenson, 1968  
 Entomol. News 79(3): 80-82, figs. 1 ♂ genitalia, 2 top row left ♂ D&V (holotype), right D&V.  
**Original Combination:** *Oeneis jutta ascerta*  
**Type Locality:** "West White Pine Truck Trail, Solana State Forest, Aitkin County, Minnesota"  
**Types:** Holotype in CMNH.
- d. *Oeneis jutta ridingiana* F. Chermock & R. Chermock, 1940  
 Can. Entomol. 72(4): 82.  
**Original Combination:** *Oeneis jutta ridingiana*  
**Type Locality:** "Riding Mountains, Manitoba"  
**Types:** Holotype in AMNH.
- e. *Oeneis jutta harperi* dos Passos, [1977]  
 J. Res. Lepid. 15(4): 213.  
**Original Combination:** *Oeneis jutta harperi*  
**Type Locality:** "Gillam, Manitoba"  
**Types:** Holotype in MGCL.  
 Name offered to validate *Oeneis jutta harperi* Wyatt, 1965, Z. wien. entomol. Ges. 50[76] (5): 70-71, where it is a *nomen nudum*. Masters (1969), Bull. Assn. Minn. Entomol. 3(2): 23-24, tried to do the same thing, but listed the name in synonymy.
- f. *Oeneis jutta leussleri* Bryant, 1935  
 Bull. Brooklyn Entomol. Soc. 30(3): 115, no. 11.  
**Original Combination:** *Oeneis jutta leussleri*  
**Type Locality:** The only specimen mentioned by Leussler and Bryant (1935), Bull. Brooklyn Entomol. Soc. 30(2): 46, is from "Base Camp," but Bryant (1935), Bull. Brooklyn Entomol. Soc. 30(1): 7, 8, mentioned that *jutta* was only taken at the "Base of Black Mountain." Thus, the type locality is herein suggested to be "Thirty miles southwest of Aklavik and immediately west of the Mackenzie Delta...area immediately adjacent to the escarpment." [District of Mackenzie, Northwest Territories]  
**Types:** Holotype in AMNH or OSU.
- g. *Oeneis jutta alaskensis* W. Holland, 1900  
 Entomol. News 11(3): 389, no. 23; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, figs. 10 ♂ D, 11 ♀ D.  
**Original Combination:** *O[eneis]. jutta* var. *alaskensis*  
**Type Locality:** "mountains between Forty-Mile and Mission Creeks, N. E. Alaska...American Creek, Alaska"  
**Types:** Lectotype in CMNH, designated by Masters and Sorenson (1968), Entomol. News 79(3): fig. 2 third row, third from left ♂ D (as "holotype").
- h. *Oeneis jutta chermocki* Wyatt, 1965  
 Z. wien. entomol. Ges. 50[76] (5): 69-70, pl. 8, figs. 3 ♂ D, 3a ♂ V (holotype); 4 ♀ D, 4a ♀ V.  
**Original Combination:** *Oeneis jutta chermocki*  
**Type Locality:** "Banff, Alberta, Kanada, 1360 m"  
**Types:** Holotype in LNKD.
- i. *Oeneis jutta reducta* McDunnough, 1929  
 Can. Entomol. 61(5): 105.  
**Original Combination:** *Oeneis jutta reducta*  
**Type Locality:** "Upper Gallatin Canyon, Mont." [Gallatin County, Montana]  
**Types:** Holotype (#2955) in CNC.
793. *Oeneis melissa* (Fabricius, 1775)
- a. *Oeneis melissa semidea* (Say, 1828)  
 Am. Entomol. 3: pl. 50, 3 unnumbered pages.  
**Original Combination:** *Hipparchia Semidea*  
**Type Locality:** "bald summits of the White Mountains of New Hampshire"  
**Types:** Lectotype (#7000) in ANSP (Peale collection), designated by Fox (1939), Entomol. News 50(8): 215; figured by F. Brown (1974), Proc. Acad. Nat. Sci. Philad. 126(5): 54, fig. 1 ♀ D&V.  
 = ♀ "nigra" (W. H. Edwards, 1894)  
 Butts. N. Am. 3(15): [350], pl. Chionobas 9, fig. 8 ♂ VHW.  
**Original Combination:** [*Chionobas Semidea*] var. *Nigra*  
**Type Locality:** "New Hampshire"; further defined as "Mount Washington, N. H." by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402. [Coos County, New Hampshire]  
**Types:** "Lectotype" in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 402, fig. 30 ♂ D&V.  
 The text clearly indicates that this taxon was described as an individual variant.

‡*eritiosa*" (Boisduval, [1834])

Icon. Hist. Lépid. 1(20): 197, under the discussion of *Chionobas also*.

**Original Combination:** [*Chionobas*] *Eritiosa*

**Type Locality:** "dans les montagnes calcaires de New-Hampshire" [White Mountains, New Hampshire]

**Types:** Location of "type(s)" not known, possibly never existed; a *nomen nudum*.

b. *Oeneis melissa melissa* (Fabricius, 1775)

Syst. Entomol.: 513, no. 298.

**Original Combination:** *P[apilio]*. *N[ymphalis]*. *P[halerata]*. *Melissa*

**Type Locality:** "insula Terre nueve Americae. Mus. Banks" Defined herein as "Chateau Bay, Labrador coast." Lysaght (1971), J. Banks Newfoundland Labrador: 120-155, detailed Banks' stay in Newfoundland. Banks visited St. John's and Croque on the east side of the northern peninsula, and Chateau Bay, on the Labrador coast. *Oeneis melissa* is not currently known to occur on Newfoundland Island. Neotype from "[Canada], Labrador, ? Tanke." [Newfoundland and Labrador]

**Types:** Type(s) apparently lost; neotype in MGCL, designated by V. Lukhtanov and Eitschberger (2002), Butts. World, Suppl. 4: 4, 1d; figured by V. Lukhtanov and Eitschberger (2000), Butts. World Part. 11: pl. 1, fig. 10 ♂ D, pl. 2, fig. 10 ♂ V.

c. *Oeneis melissa semplei* W. Holland, 1930

Ann. Carnegie Mus. 20(1): 50-51; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 63, figs. 1 ♂ D, 2 ♀ D, 3 ♂ V.

**Original Combination:** *Oeneis semplei*

**Type Locality:** "western coast of Labrador, at the point where the Little Cape Jones River discharges into Hudson Bay" [Quebec, Canada]

**Types:** Syntypes in CMNH.

d. *Oeneis melissa assimilis* Butler, 1868

Cat. Sat. Brit. Mus.: 163, no. 13, pl. 2, fig. 10 ♀ V (holotype).

**Original Combination:** *Oeneis Assimilis*

**Type Locality:** "Repulse Bay" [Nunavut]

**Types:** Holotype (♀ #3824) in BMNH.

= *arctica* Gibson, 1920

Rept. Can. Arctic Exped. 3(i): 13i, pl. 1, fig. 4 ♂ genitalia, pl. 2, fig. 4 ♂ V, pl. 4, fig. 4 ♂ D (holotype); figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 72, fig. 5 ♂ V.

**Original Combination:** *Oeneis semidea* var. *arctica*

**Type Locality:** "Bernard Harbour, Northwest Territories" [Nunavut]

**Types:** Holotype (#835) in CNC.

= *simulans* Gibson, 1920

Rept. Can. Arctic Exped. 3(i): 14i, pl. 1, fig. 7 ♂ genitalia, pl. 2, fig. 5 ♂ V (holotype); figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, fig. 19 ♂ V.

**Original Combination:** *Oeneis simulans*

**Type Locality:** "Bernard Harbour, Northwest Territories" [Nunavut]

**Types:** Holotype (#854) in CNC.

e. *Oeneis melissa gibsoni* W. Holland, 1930

Ann. Carnegie Mus. 20: 51; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 63, figs. 9 ♀ V, 10 ♂ V.

**Original Combination:** *Oeneis gibsoni*

**Type Locality:** "in the Kuskokwim Valley"; suggested to be "Bethel, about 20 miles up the Kuskokwim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12. [Alaska]

**Types:** Lectotype in CMNH, designated by W. Holland (1931), Butt. Book (rev. ed.): pl. 63, fig. 10 ♂ D, as "type."

f. *Oeneis melissa atlinensis* C. Guppy & J. Shepard, 2001

Butts. B. C.: 348-349, figs. ♂ D&V (holotype), ♀ D&V.

**Original Combination:** *Oeneis melissa atlinensis*

**Type Locality:** "BC, Atlin, Mt. Vaughan, el. 5,200+ ft." [British Columbia]

**Types:** Holotype in BCPM.

g. *Oeneis melissa beanii* Elwes, 1893

Trans. Entomol. Soc. Lond. (4) 1893[41] (4): 464, 476-477; 481, key; pl. 15, fig. 8 valve, fig. 11 hind tibia ♀.

**Original Combination:** [*Oeneis*] *Beanii*

**Type Locality:** "Laggan...at 8-9000 ft. elevation"; defined as "vicinity of...Lake Louise, Banff National Park, Alberta" by Kondla (1996), Alberta Naturalist 26(2): 40.

**Types:** Holotype (#3825) in BMNH.

h. *Oeneis melissa lucilla* W. Barnes & McDunnough, 1918

Contr. Nat. Hist. Lepid. N. Am. 4(2): 69-70, pl. 11, figs. 16 ♂ D (holotype), 17 ♂ V, 18 ♂ D, pl. 25, fig. 5 ♂ genitalia.

**Original Combination:** *Oeneis lucilla*

**Type Locality:** "Hall Valley, Colo." [Park County, Colorado]

**Types:** Holotype in USNM; figured by Howe (1975), Butts. N. Am.: pl. 6, fig. 12 ♂ D&V.

hora group Gorbunov, 2001

Butts. Russia Class.: 226.

\*794. *Oeneis alpina* Kurentsov, 1970

Butts. Far East USSR: 49, fig. 42(2) ♂ D&V (holotype); 50, key, fig. 44(1) ♂ genitalia; 74.

**Original Combination:** *Oeneis alpina*

**Type Locality:** "balds of the Omsukchansk range (an eastern spur of Kolymsk range)" [Magadan Oblast, Chukotka Autonomous



Okrug, Russia]

**Types:** Holotype in the IPBV, registered by Azarova (1986), Syst. Ecol. Lepid. Far East USSR: 124, no. 20.

= *ostracon* Korb, 1996

Vestn. Zool. 1996(4/5): 101.

**Original Combination:** *Oeneis excubitor ostracon*

**Type Locality:** "Magadan oblast, Palatka" [Magadan Oblast, Chukotka Autonomous Okrug, Russia]

**Types:** Holotype in ZIN.

Gorbunov (2001), Butts. Russia Class.: 237, noted that this taxon might be a synonym of *O. m. magna* Graeser, 1888. It is placed here provisionally until this possibility is investigated.

- a. **Oeneis alpina excubitor** Troubridge, Philip, Scott & J. Shepard, 1982

Can. Entomol. 114(10): 881-882, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♂ D, 4 ♂ D, 5 ♀ D, 6 ♀ V, 7 ♀ D, 8 ♀ D, 9 ♂ genitalia.

**Original Combination:** *Oeneis excubitor*

**Type Locality:** "Yukon: Mt. Chambers, Ogilvie Mts., hilltop 4 km E., 1400 m"

**Types:** Holotype in CNC.

bore group Gorbunov, 2001

Butts. Russia Class.: 226.

- \*795. **Oeneis bore** (Esper, 1789)

Die Schmett. 1(suppl.)(1)(3/4): 55 (1789), (5/6): 63 (1794), (7): 76 [1798]; 1(suppl.)(1)(3-4): pl. 100, fig. 1 (1789); (7): pl. 108, fig. 1 [1798].

**Original Combination:** *Papilio* (*Dan[aus]*, *Cand[idus]*.) *Bore*

**Type Locality:** "Lapland"

**Types:** Type(s) probably lost.

The recent determination (Heppner (1981), Arch. Nat. Hist. 10(2): 251-254) of Esper's publication dates gave priority to Esper's description over Schneider (1792), Neu. Mag. Liebhaber Entomol. 4: 415, 445; 5: 585 (1793), which is usually listed.

Ferris *et al.* (1983), Can. Entomol. 115(7): 838, and Scott (1986), Butts. N. Am.: 249-250, no. 130, suggested that *taygete* is conspecific with *bore*.

= *fortunatus* (Fabricius, 1793)

Entomol. Syst. 3(1): 214, no. 670.

**Original Combination:** *P[apilio]*. *S[atyr]*. *Fortunatus*

**Type Locality:** "Lapponia Dom. de Paykull" [Lapland, Norway and Sweden]

**Types:** Syntypes in ZMUC.

E. Doubleday (1844), List Spec. Lepid. Ins. Coll. Brit. Mus. 1: 123, was the first to consider this name to be a synonym of *O. bore*.

= *crambis* (Freyer, [1844])

Neuer Beitr. Schmett. 5(74): 99-100, no. 783, pl. 440, figs. 3 ♂ D&V, 4 ♀ D&V.

**Original Combination:** *Hipparchia Crambis*

**Type Locality:** "Lapland" [Lapland, Norway and Sweden]

**Types:** There may be syntypes in BMNH or ZSMC, or they may be lost.

This name has been employed in different ways in the past, but it is clear from the figures, type locality, description, and Freyer's comparison with *bore* that this name belongs here.

- a. **Oeneis bore taygete** Geyer, [1830]

In: Hübner, Samml. Exot. Schmett. 3: [60-61], [pl. 17], figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.

**Original Combination:** *Oeneis Taygete*

**Type Locality:** "Labrador"; neotype from from "Hopedale, Labrador, latitude 53°N." [Newfoundland and Labrador]

**Types:** Neotype in CMNH, designated by dos Passos (1949), Am. Mus. Novit. (1399): 6, figs. 1 ♂ D, 2 ♂ V.

= *bootes* (Boisduval, [1834])

Icon. Hist. Lépid. 1(19): 191-192, no. 5, pl. 37, figs. 4 ♂ D, 5 ♀ D, 6 ♀ V.

**Original Combination:** *Chionobas Bootes*

**Type Locality:** "Cap-Nord...Kamtschatka...Groenland et au Labrador"; defined as "Hopedale, Labrador" by dos Passos (1949), Am. Mus. Nov. No. 1399: 7.

**Types:** Type(s) probably lost; see below.

dos Passos (1949), Am. Mus. Novit. (1399): 4, figs. 3 ♂ D, 4 ♂ V, figured a possible syntype (labeled "type" in the figure legend) from the USNM. This specimen, without locality label, differs from the figures given by Boisduval, and resembles Alaskan samples. The original localities given by Boisduval are diverse (no *Oeneis* are known to occur in Greenland), and there exists the possibility of misidentification. dos Passos thought it wise to leave the "type" as Boisduval's figure, since it closely resembles specimens from Labrador. The USNM specimen may be a syntype, but it is not likely a specimen from Labrador. If it is a syntype, it appears to be the only one remaining, and may eventually cast doubt on the identity of the name *bootes* as here identified.

- b. **Oeneis bore gaspeensis** dos Passos, 1949

Am. Mus. Novit. (1399): 8-12, figs. 5 ♂ D, 6 ♂ V (holotype); 7 ♀ D, 8 ♀ V.

**Original Combination:** *Oeneis taygete gaspeensis*

**Type Locality:** "Mt. Albert...at about 3000 feet" [Gaspé National Park, Quebec]

**Types:** Holotype in AMNH.

- c. **Oeneis bore hanburyi** Watkins, 1928

Ann. Mag. Nat. Hist. (10)1(5): 617.

**Original Combination:** *Oeneis bore hanburyi*



**Type Locality:** "on the Canadian Arctic coast about Coronation Gulf...Grays Bay" [District of Mackenzie, Northwest Territories]

**Types:** Holotype in BMNH.

d. ***Oeneis bore mckinleyensis*** dos Passos, 1949

Am. Mus. Novit. (1389): 2-8, figs. 1 ♂ D, 2 ♂ V (holotype); 3 ♀ D, 4 ♀ V, 5-8 ♂, 9-10 ♀.

**Original Combination:** *Oeneis mckinleyensis*

**Type Locality:** "McKinley Park, Alaska"

**Types:** Holotype in AMNH.

Spelled "mackinleyensis" by dos Passos (1958), Proc. Int. Congr. Entomol. 10(Montreal 1956)1: 674; an unjustified emendation.

e. ***Oeneis bore fordi*** dos Passos, 1949

Am. Mus. Novit. (1399): 12-16, figs. 9 ♂ D, 10 ♂ V (holotype); 11 ♀ D, 12 ♀ V.

**Original Combination:** *Oeneis taygete fordi*

**Type Locality:** "Kuskoquim River, Alaska"; suggested to be "Bethel, about 20 miles up the Kuskoquim River at the inland edge of the coastal tundra" by dos Passos (1949), Am. Mus. Novit. (1389): 11-12.

**Types:** Holotype in CMNH.

f. ***Oeneis bore edwardsi*** dos Passos, 1949

Am. Mus. Novit. (1399): 16-20, figs. 13 ♂ D, 14 ♂ V (holotype); 15 ♀ D, 16 ♀ V.

**Original Combination:** *Oeneis taygete edwardsi*

**Type Locality:** "San Juan Mountains, Hinsdale Co., Colorado"; further defined as "Rio Grande Pyramid" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. (2): 202.

**Types:** Holotype in AMNH.

796. ***Oeneis chryxus*** (E. Doubleday, [1849])

a. ***Oeneis chryxus strigulosa*** McDunnough, 1934

Can. Entomol. 66(4): 86.

**Original Combination:** *Oeneis chryxus strigulosa*

**Type Locality:** "Gull Lake, (Raggedy Cr.) near Minden, Ont." [Ontario]

**Types:** Holotype (#3732) in CNC.

b. ***Oeneis chryxus calais*** (Scudder, 1865)

Proc. Entomol. Soc. Philad. 5[2]: 7-10, no. 3, fig. 4.

**Original Combination:** *Chionobas calais*

**Type Locality:** "Albany River, Hudson's Bay"; corrected to "Rupert House, Hudson's Bay" by W. H. Edwards (1883), Can. Entomol. 15(3): 44, no. 9. A. Clark (1932), Proc. U. S. Nat. Mus. 81(11)(2934): 1-2, corroborated the type locality as stated by W. H. Edwards.

**Types:** Holotype in CMNH; figured by W. H. Edwards (1892), Butts. N. Am. 3(13): pl. Chionobas 2, figs. 5 ♀ D, 6 ♀ V, and W. Holland (1931), Butt. Book (rev. ed.): pl. 62, fig. ♀ D.

c. ***Oeneis chryxus caryi*** Dyar, 1904

Proc. Entomol. Soc. Wash. 6(3): 142.

**Original Combination:** *Oeneis caryi*

**Type Locality:** "Smith Landing, Athabasca"; defined as "vicinity of latitude 59° 54'N, longitude 111° 40'W near the west side of the Slave River, Alberta" by Kondla (1995), Alberta Naturalist 25(4): 75. [NE Alberta]

**Types:** Holotype (#8046) in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, figs. 10 ♂ D, 10a ♂ V, and Howe (1975), Butts. N. Am.: pl. 8, fig. 6 ♂ D&V.

d. ***Oeneis chryxus chryxus*** (E. Doubleday, [1849])

In: Gen. diurn. Lepid. (1): pl. 64, fig. 1 ♂ D [1849]; 2(43): 383, no. 13 (Westwood, 1851).

**Original Combination:** *Chionobas Chryxus*

**Type Locality:** "Rocky Mountains"; defined as "Rock Lake, Alberta (53° 27'N, 118° 16'W)" by J. Shepard (1984), Quaest. Entomol. 20(1): 40-41.

**Types:** Lectotype (#3845) in BMNH, designated by J. Shepard (1984), Quaest. Entomol. 20(1): 42, figs. 5 ♀ D, 6 ♀ V.

e. ***Oeneis chryxus altacordillera*** Scott, 2006

Papilio (n.s.) 12: 14-15, pl. 4 5th row left ♂ D&V (holotype), 5th row center left ♂ D, 5th row center right ♂ D.

**Original Combination:** *Oeneis calais altacordillera*

**Type Locality:** "Colorado: Sangre de Cristo Mts.: Baldy Peak 12,500', Custer Co."

**Types:** Holotype in BMNH.

f. ***Oeneis chryxus valerata*** Burdick, 1958

Lepid. News 11(1-3): 23-26, fig. 2 ♂ genitalia, fig. 3 (left row, top to bottom) 1st ♂ D, 2nd ♂ V (holotype); 3rd ♀ D, 4th ♀ V.

**Original Combination:** *Oeneis chryxus valerata*

**Type Locality:** "Hurricane Ridge, Clallam Co., Washington"

**Types:** Holotype in LACM; figured by Howe (1975), Butts. N. Am.: pl. 8, figs. 4 ♂ D&V.

g. ***Oeneis chryxus ivallda*** (Mead, 1878)

Can. Entomol. 10(10): 196-198.

**Original Combination:** *Chionobas Ivallda*

**Type Locality:** "Summit...Freel's Peak and Tallac Mountain...within a few miles of Lake Tahoe, near the boundary line between California and Nevada" [Placer County, California]

**Types:** Syntypes in CMNH; figured by W. Holland (1898), Butt. Book: pl. 27, figs. 9 ♂ D, and (1931), Butt. Book (rev. ed.): pl. 62, fig. 4 ♀ D.

Ferris (1989), Mem. Lepid. Soc. 3: 60, 98, discussed the wing pigment chemistry of *ivallda* and *chryxus*, and concluded that

- ivallda* is conspecific with *chryxus*. Porter and Shapiro [1991], J. Res. Lepid. 28(4): 263-276, presented electrophoretic evidence corroborating this conclusion.
- h. **Oeneis chryxus stanislaus** Hovanitz, 1937  
Entomol. News 48(8): 228-230.  
**Original Combination:** *Oeneis chryxus stanislaus*  
**Type Locality:** "Deadman Creek, tributary of the Middle Fork Stanislaus River, border of Tuolumne Co. and Alpine Co. California. Elevation 8400 ft." [Sonora Pass, Alpine County]  
**Types:** Holotype in CAS.
797. **Oeneis alberta** Elwes, 1893
- a. **Oeneis alberta alberta** Elwes, 1893  
Trans. Entomol. Soc. Lond. (4)1893[41](4): 461, 467-468.  
**Original Combination:** [*Oeneis*] *Alberta*  
**Type Locality:** "near Calgary"; defined as "Fish Creek Provincial Park, about one mile west of the Bow River, Calgary, Alberta" by Kondla (1995), Alberta Naturalist 26(2): 39.  
**Types:** Holotype (#3844) in BMNH.
- b. **Oeneis alberta ojibwe** Scott & Kondla, 2006  
Papilio (n.s.) 12: 13-14.  
**Original Combination:** *Oeneis alberta ojibwe*  
**Type Locality:** "Pine Ridge, Man." [Manitoba]  
**Types:** Holotype in CNC; figured by Layberry *et al.* (1998), Butts. Can.: pl. 19, fig. 19 ♂ D&V.
- c. **Oeneis alberta oslari** Skinner, 1911  
Entomol. News 22(5): 220.  
**Original Combination:** *Oeneis alberta oslari*  
**Type Locality:** "Deer Creek Canyon, Colorado" [S of Morrison, Jefferson County] This is apparently in error; specimens almost certainly came from South Park, Park County (A. Warren pers. comm. 2006).  
**Types:** Syntype (#7040) in ANSP.
- d. **Oeneis alberta capulinensis** F. Brown, 1970  
J. N. Y. Entomol. Soc. 78(3): 137-138, fig. 2, 2 ♂ D&V.  
**Original Combination:** *Oeneis alberta capulinensis*  
**Type Locality:** "Outer slope of north rim of the crater, Capulin Mountain, Union County, New Mexico, 8,200 feet above sea level"  
**Types:** Holotype in AMNH.
- e. **Oeneis alberta daura** (Strecker, 1894)  
Can. Entomol. 26(8): 225.  
**Original Combination:** *Chionobas daura*  
**Type Locality:** "Mt. Graham, Arizona" [Graham County]  
**Types:** Holotype in FMNH; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 76, figs. 20 ♀ D, 20a ♀ V.
798. **Oeneis nevadensis** (C. Felder & R. Felder, 1867)
- a. **Oeneis nevadensis gigas** Butler, 1868  
Cat. Sat. Brit. Mus.: 161-162, no. 6, pl. 2, fig. 2 ♂ V (holotype).  
**Original Combination:** *Oeneis Gigas*  
**Type Locality:** "Vancouver's Island" [British Columbia]  
**Types:** Holotype (#3846) in BMNH.
- b. **Oeneis nevadensis nevadensis** (C. Felder & R. Felder, 1867)  
Reise Novara Zool. (3): 489-490, no. 845, pl. 69, figs. 4 ♂ D, 5 ♂ V.  
**Original Combination:** *Chionobas Nevadensis*  
**Type Locality:** "California: Sierra Nevada (Lorquin)"; defined as "Little Volcano Mountain, ca. 7 air miles southeast of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88.  
**Types:** Lectotype in BMNH, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (5): 88, figs. 10 ♂ D, 11 ♂ V. This name was listed, but not described, by Behr (1864), Proc. Calif. Acad. Sci. 3(2)(11): 163; a *nomen nudum*.  
= *californica* (Boisduval, 1869)  
Annls. Soc. Entomol. Belg. 12: 62, no. 60.  
**Original Combination:** *Chionobas californica*  
**Type Locality:** "dans les hautes montagnes à la limite des neiges"; defined as "Little Volcano Mountain, ca. 7 air miles southeast of Quincy, Plumas County, California" by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 34.  
**Types:** Lectotype in USNM, designated by J. Emmel *et al.* (1998), Syst. W. N. Am. Butts. (2): 34, figs. 264 ♂ D, 265 ♂ V.
- c. **Oeneis nevadensis iduna** (W. H. Edwards, 1874)  
Butts. N. Am. 2(1): [275-277], pl. *Chionobas* 1, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Chionobas Iduna*  
**Type Locality:** "Mendocino County" [California]  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 392, fig. 25 ♂ D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, figs. 6 ♂ V.
799. **Oeneis macounii** (W. H. Edwards, 1885)  
Can. Entomol. 17(4): 74-75; figured by W. H. Edwards (1893), Butts. N. Am. 3(14): pl. *Chionobas* 10, figs. 1 ♂ D, 2 ♂ V, 3 ♀ D, 4 ♀ V.  
**Original Combination:** *Chionobas Macounii*  
**Type Locality:** "Lake Nipigon" [Nipigon, Ontario].  
**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 390, fig. 24 ♂ D&V.

Subgenus **Protoeneis** Gorbunov, 2001

Butts. Russia, Class.: 226, 227 key, 228 diagnosis. Type-species: *Chionobas nanna* Ménétériés, 1859, Bull. class. phys. math. Acad. Imp. Sci. St. Petersburg (ser. 2) 17(12-14, nos. 396-398): col. 216, no. 15, by original designation.

800. **Oeneis uhleri** (Reakirt, 1866)a. **Oeneis uhleri uhleri** (Reakirt, 1866)

Proc. Entomol. Soc. Philadelphia 6[1]: 143-145.

**Original Combination:** *Chionobas Uhleri*

**Type Locality:** "Rocky Mountains, Colorado Terr."; suggested to be "the grassy parts that crown the Front Range west of Denver (Bergen Park, etc.)" by F. Brown (1953), Am. Mus. Novit. (1625): 1; further defined as "vic. Georgetown, Clear Creek Co., Colorado" by L. Miller and F. Brown (1981), Mem. Lepid. Soc. 2: 201.

**Types:** Syntypes in FMNH.

=  $\mathfrak{f}$ "obscura" (W. H. Edwards, 1892)

Butts. N. Am. 3(13): [294], pl. Chionobas 3, fig. 5  $\sigma$  D ("holotype").

**Original Combination:** *Chionobas Uhleri* var. *Obscura*

**Type Locality:** Not stated; defined as "Clear Creek Canyon, Jefferson Co., Colorado...6,000 ft. above sea level" by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 395.

**Types:** "Holotype" in CMNH; figured by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 394, fig. 27  $\sigma$  D&V. The text clearly indicates that this taxon was described as an individual variant.

b. **Oeneis uhleri reinthali** F. Brown, 1953

Am. Mus. Novit. (1625): 21-25, fig. 6D  $\sigma$  genitalia, figs. 7G  $\sigma$  D (holotype), 7H  $\sigma$  D, 8G  $\sigma$  V (holotype), 8H  $\sigma$  V.

**Original Combination:** *Oeneis uhleri reinthali*

**Type Locality:** "near Gothic, Colorado" [Gunnison County]

**Types:** Holotype in AMNH.

c. **Oeneis uhleri varuna** (W. H. Edwards, 1882)

Can. Entomol. 14(1): 2-5; figured by W. H. Edwards (1892), Butts. N. Am. 3(12): pl. Chionobas 4, figs. 1  $\sigma$  D, 2  $\sigma$  V, 3  $\sigma$  D, 4  $\sigma$  V, 5  $\sigma$  D, 6  $\sigma$  V, 7  $\sigma$  D, and (1897), Butts. N. Am. 3(17): [389-393], pl. Chionobas 13, fig. 1  $\sigma$  V.

**Original Combination:** *Chionobas Varuna*

**Type Locality:** "Dacotah Terr....on the plains, elevation about 1,200 feet"

**Types:** Lectotype in CMNH, designated by F. Brown (1964), Trans. Am. Entomol. Soc. 90(4): 394, fig. 26  $\sigma$  D&V; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 62, figs. 11  $\sigma$  D (paralectotype), 13  $\sigma$  D (lectotype).

=  $\mathfrak{f}$ "dennisi" Gunder, 1927

Can. Entomol. 59(12): 285-286, no. 17, pl. B, figs. 17  $\sigma$  D, 17b  $\sigma$  V ("holotype").

**Original Combination:** *Oeneis uhleri* race *varuna* tr. f. *dennisi*

**Type Locality:** "Beulah, Man., Can." [Manitoba]

**Types:** "Holotype" in CNC.

d. **Oeneis uhleri cairnesi** Gibson, 1920

Rept. Can. Arctic Exped. 3(i): 151, pl. 1, fig. 6  $\sigma$  genitalia; pl. 2, fig. 7  $\sigma$  V (holotype), 8  $\sigma$  V; pl. 4, fig. 6  $\sigma$  D (holotype).

**Original Combination:** *Oeneis cairnesi*

**Type Locality:** "White river district, Yukon Territory, lat. 61°55', long. 141°"

**Types:** Holotype (#834) in CNC; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, fig. 20  $\sigma$  V.

= *kluanensis* M. Hassler, 2002

In: Hassler and Feil, Nachrichtenbl. Entomol. Ver. Apollo, n. f. 22(4): 199, figs. 4  $\sigma$  D, 19  $\sigma$  V, 31  $\sigma$  genitalia (holotype); 5  $\sigma$  D, 20  $\sigma$  D, 6  $\sigma$  V, 21  $\sigma$  V.

**Original Combination:** *Oeneis nanna kluanensis*

**Type Locality:** "SW-Yukon, NW Burwash Landing, Quill Creek Area, 800-1200m altitude"

**Types:** Holotype in SME.

e. **Oeneis uhleri nahanni** Dyar, 1904

Proc. Entomol. Soc. Washington 6(3): 142.

**Original Combination:** *Oeneis nahanni*

**Type Locality:** "Nahanni Mts., Mackenzie, 2500''"; defined as "Lone Mountain (Mount Tha-on-tha), about 62° 11'N, 123° 16'W Nahanni Range, Mackenzie Mountains, Northwest Territories" by Kondla (1995), Blue Jay 53(4): 227.

**Types:** Holotype (#8047) in USNM; figured by W. Holland (1931), Butt. Book (rev. ed.): pl. 75, figs. 11  $\sigma$  D, 11a  $\sigma$  V.





## APPENDIX 1

## Excluded Species

The species listed below have been excluded from the fauna of the United States and Canada due to erroneous or inadequate documentation, or recent change in status. This is not an exhaustive list, but treats most discrepancies in the post-1980 literature; also see Excluded Names list. See Calhoun (1997) for a complete list of erroneous Florida records.

## HESPERIIDAE

**Phocides urania** (Westwood, 1852)

This species was recorded in 1872 from "Texas" and has not been reported since. The taxon *texana* (Scudder, 1872) is a synonym of *urania* described from this same series of specimens reputedly from Texas. At least one other taxon recorded at the same time, *Dyscophellus euribates* (Stoll, 1782), is remote geographically and a very unlikely candidate for a stray. *P. urania* seems a likely candidate to stray into the United States. See: Scudder (1872c), Aaron (1890), Skinner (1911g), Skinner and Williams (1922), Neck (1996), Cassie *et al.* (2001), Opler and A. Warren (2002). Arizona records are unsubstantiated; Bailowitz and Brock (1991).

**Epargyreus windi** H. Freeman, 1969

Arizona records of "*Epargyreus exadeus* (Cramer, 1779)" almost certainly refer to *E. windi*, known from central Sonora, Mexico, but specimens have not been examined (see Opler and A. Warren 2002).

**Epargyreus aspina** Evans, 1952

This species was mentioned by Opler and A. Warren (2002). It could possibly also stray into our area; dissection of all exotic *Epargyreus* specimens in our area is needed to confirm their specific identity.

**Chioides catillus** (Cramer, 1780)

Previously considered conspecific with *Chioides albofasciatus* (Hewitson, 1867), Austin and A. Warren (2002: 17-18) demonstrated that this is an extralimital taxon.

**Polythrix asine** (Hewitson, 1867)

This species was erroneously reported from the U.S. based on an unjustifiable assumption of conspecificity with *Polythrix mexicana* H. Freeman, 1969, by Scott (1986); see H. Freeman (1969) and Austin and A. Warren (2002).

**Codatractus melon** (Godman & Salvin, 1893)

There are no authentic records of this species for our area; see Skinner (1901: 171), Bailowitz and Brock (1991: 25).

**Codatractus carlos carlos** Evans, 1952

Evans (1952) cited W. Holland (1931: pl. 49, fig. 16 ♀ V; as *alcaeus*), but this species has never been authentically recorded from our area.

**Urbanus dorantes santiago** (Lucas, 1857)

This taxon was listed by L. Miller and F. Brown (1981: 8), but there are no authentic specimens from our area. Excluded from the list with its synonyms *cariosa* (Herrich-Schäffer, 1862) and *larius* (Plötz, 1881).

**Urbanus pronta** Evans, 1952

McGuire and Rickard (1974: 8) recorded this species from Texas, and it was listed by L. Miller and F. Brown (1981: 7); misidentified for *Urbanus pronus* Evans, 1952. See Kendall and McGuire (1984: 5).

**Urbanus evona** Evans, 1952

This species was recorded from Texas on the basis of a photograph by Glassberg (2004: 34-35) and commented upon by Sill (2004: 25) and Reese (2004: 42). Several photographs have since been attributed to this species. It belongs to a group of skippers that can only be positively identified by genitalic examination; it is excluded until a specimen can be examined.

**Urbanus albimargo** (Mabille, 1876)

McGuire and Rickard (1974: 8) recorded this species from Texas, and it was listed by L. Miller and F. Brown (1981: 9); misidentified for *U. doryssus* (Swainson, 1831). See Ferris (1989c: 6).

**Astraptes galesus** (Mabille, 1888)

This taxon was recorded from the U.S. (as "*Telegonus hahneli*") by Skinner (1901: 171), and listed by subsequent authors (*e.g.*, Holland, 1931: 333). Misidentified for *Astraptes galesus cassius* Evans, 1952; it is not *Telegonus hahneli* Staudinger, 1888, which is a synonym of *Aethilla memmius* Butler, 1870. All records from our area are unsubstantiated; see Bailowitz and Brock (1991: 30-31). The species is unknown from Mexico (Warren 2000, 2002).

**Dyscophellus euribates** (Stoll, 1782)

This species was recorded in 1872 from "Texas" as *Eudamus hesus* (Westwood, 1852) and has not been reported since. This species is remote geographically and a very unlikely candidate for a stray to Texas. See: Scudder (1872c), Aaron (1890), Skinner (1911g), Skinner and Williams (1922), Neck (1996), Cassie *et al.* (2001), Opler and A. Warren (2002). All records from our area are unsubstantiated (see Lindsey *et al.* 1931). This species remains unknown from Mexico (Warren 2000, 2002). Excluded from the list with its synonyms *nicias* (Fabricius, 1787), *etias* (Hewitson, 1867), *gaurus* (Plötz, 1882) and *tychios* (Plötz, 1882).

**Cogia cajeta** (Herrich-Schäffer, 1869)

One unsubstantiated record from Texas (Stanford, 2002).

**Cogia caicus caicus** (Herrich-Schäffer, 1869)

This taxon erroneously listed from our area by L. Miller and F. Brown (1981).

**Pellicia costimacula** Herrich-Schäffer, 1870

This South American species was shown to be distinct from *Pellicia arina* Evans, 1953, by Steinhauser (1989).

**Pellicia angra** Evans, 1953

- This species was recorded in error from Texas, for *Pellicia arina* Evans, 1953. No authentic records from our area exist.
- Staphylus azteca** (Scudder, 1872)  
Single individual of this species was reported from Texas by H. Freeman (1977), but was later identified as *Staphylus ceos* (W. H. Edwards, 1882) by A. Warren, *in*: Opler and A. Warren (2002: 46); not *Staphylus mazans* (Reakirt, [1867]) as reported by Cassie *et al.* (2001: 31).
- Sostrata bifasciata** (Ménétriés, 1829)  
This South American taxon was previously considered conspecific with *S. nordica* Evans, 1953.
- Chiomara asychis** (Cramer, 1780)  
This South American taxon was previously considered conspecific with *C. georgina* (Reakirt, 1868).
- Gesta gesta** (Herrich-Schäffer, 1863)  
This extralimital taxon was previously considered conspecific with *G. invisus* (Butler & H. Druce, 1872), see Austin and A. Warren (2002).
- Eantis mithridates** (Fabricius, 1793)  
This Jamaican taxon was previously considered conspecific with *E. tamenund* (W. H. Edwards, 1871); see A. Warren (1996).
- Eantis thraso** (Hübner, [1807])  
This Neotropical taxon was previously considered conspecific with *E. tamenund* (W. H. Edwards, 1871); see A. Warren (1996).
- Pyrgus adepta** Plötz, 1884  
Two highly unlikely and unverified records exist from Texas (Stanford 2002).
- Piruna cyclosticta** (Dyar, 1920)  
The recent report of *Piruna pirus* (W. H. Edwards, 1878) from Jeff Davis Co., Texas (Bordelon 2000), may represent this species, as listed (with a "?") by Stanford (2002). These specimens have not yet been examined.
- Piruna microsticta** (Godman, 1900)  
Reports of this extralimital species from Texas refer to *Piruna penaea* (Dyar, 1918); see Opler and A. Warren (2002).
- Agathymus remingtoni** (D. Stallings & Turner, 1958)  
Confusion with *Agathymus estelleae* (D. Stallings & Turner, 1958), based on Scott (1986), has led to erroneous reports of this species in Texas.
- Stallingsia smithi** (H. Druce, 1896)  
This species was erroneously reported from the U.S. based on an unjustified assumption of conspecificity with *Stallingsia maculosus* (H. Freeman, 1955) by Scott (1986).
- Erionota torus** Evans, 1941  
Kawazoé and Wakabayashi (1976: 310-311) stated that this taxon, not *E. thrax* (Linnaeus, 1767), occurs in Hawaii and Guam. Snyder and Kumon (1999) and Fukuda and Nicho (2001: 29) demonstrated that *E. thrax* is indeed the species occurring in Hawaii, not *E. torus*.
- Panoquina fusina** (Hewitson, 1868)  
This species was erroneously reported from North America based on an unjustified assumption of conspecificity with *Panoquina evansi* (H. Freeman, 1946) by Evans (1955) and Scott (1986).
- Synapte malitiosa** (Herrich-Schäffer, 1865)  
This Caribbean taxon was previously considered conspecific with *S. pecta* Evans, 1955; see A. Warren (2000: 556).
- Synapte syraes** (Godman, 1901)  
Opler and A. Warren (2002: 10), discussed the uncertainty about which species of *Synapte* has strayed to Arizona; *S. syraes* or *S. shiva* Evans, 1955. This catalogue tentatively treats *S. shiva* as the species from Arizona, and *S. syraes* as an extralimital taxon.
- Amblyscirtes fluonia** Godman, 1900  
Reports of this species from Texas (Stanford 2002) are unsubstantiated. Evans (1955) considered *A. eria* H. Freeman, 1943, to be a synonym of *Amblyscirtes fluonia*, but see H. Freeman (1973) and A. Warren (2000, 2002).
- Callimormus saturnus** (Herrich-Schäffer, 1869)  
A single male of this species labeled from Texas, reported by Evans (1955: 95), is most likely mislabeled, although the species is common in tropical northern Mexico. Excluded with its synonym *tenera* (Plötz, 1884).
- Repens florus** (Godman, 1900)  
A single unverified record exists from south Texas (Stanford 2002), although this species is resident in Sonora and Tamaulipas, Mexico; see Vargas *et al.* (1996), Warren *et al.* (1998) and Warren (2000, 2002) for generic combination.
- Monca telata** (Herrich-Schäffer, 1869)  
Previously considered conspecific with *Monca tyrtaeus* (Plötz, 1882), a junior synonym of *Monca crispinus* (Plötz, 1882), but Bell (1941: 183-185) and Austin *et al.* (1996: 25) demonstrated that this is an extralimital species-level taxon.
- Cymaenes odilia** (Burmeister, 1878)  
This South American species was previously considered conspecific with *C. trebius* (Mabille, 1891); see A. Warren (2000, 2002).
- Remella remus** (Fabricius, 1798)  
A single unsubstantiated record exists from Texas (Stanford 2002).
- Lerema ancillarlis** (Butler, 1877)  
This Neotropical taxon was previously considered conspecific with *Lerema liris* Evans, 1955; see A. Warren (2000, 2002).
- Rhinthon cubana** (Herrich-Schäffer, 1865)  
This Caribbean taxon was previously considered conspecific with *Rhinthon osca* (Plötz, 1882), herein considered to be a species-level taxon; see L. Miller and F. Brown (1981) and A. Warren (2000, 2002).
- Decinea huasteca** (H. Freeman, 1969)  
Although this taxon was listed for our area by Ferris (1989c), no voucher from the U.S. is known.
- Polites subreticulata** (Plötz, 1883)  
Reports of this species from Texas by Freeman (1951) apparently refer to *Polites carus* (W. H. Edwards, 1883); see Burns (1994a). It is excluded with its synonym *citrus* (Mabille, 1889).
- Anatrytone potosiensis** (H. Freeman, 1969)



Although this species was listed for our area by Ferris (1989c), no voucher from the U. S. is known; see Burns (1994b) for generic combination.

**Choranthus radians** (Lucas, 1857)

Unsubstantiated records of this species exist from Florida; see Smith *et al.* (1994) and Calhoun (1997).

**Choranthus haitensis** Skinner, 1920

Unsubstantiated records of this species exist from Florida; see Smith *et al.* (1994).

**Choranthus vitellius** (Fabricius, 1793)

A single female of this species reportedly from Florida (Evans 1955) is most likely mislabeled; see Smith *et al.* (1994). Further, this taxon has been confused with *Anatrytone logan* (W. H. Edwards, 1863) in older literature; it is excluded from our area with its synonyms *huebneri* (Plötz, 1883), *insularis* (Mabille, 1891), and *portensis* (Mabille, 1891).

**Quasimellana mexicana** (Bell, 1942)

Listed from our region by L. Miller and F. Brown (1981: 44) and Ferris (1989c), but no vouchers of this species are known from our area; see Bailowitz and Brock (1991) and Burns (1994b).

**Atrytonopsis ovinia** (Hewitson, 1866)

Burns (1983) treated *Atrytonopsis ovinia* (Hewitson, 1866), and *Atrytonopsis edwardsi* Barnes & McDunnough, 1916 as species-level taxa; *A. ovinia* is extralimital.

## PAPILIONIDAE

**Battus devilliers** (Godart, [1824])

Unsubstantiated records for this butterfly from Florida; see Smith *et al.* (1994). This species, under the names *devilliersi* and *villiersii*, was originally reported from our area by Boisduval and Le Conte ([1830]: 36, pl. 14), and subsequently listed by Morris (1860: 2; 1862: 12-13), Weidemeyer (1863: 148), W. H. Edwards (1877: 9) and Strecker (1878: 67). W. H. Edwards (1884: 322) excluded it from our area for lack of authentication. W. Holland (1930: 191) discussed this species' occurrence in Florida and claimed that several specimens at the ANSP "undoubtedly were taken in southern Florida." The occurrence of this species in our area remains questionable. Calhoun (1997: 49) believes that known specimens may be mislabeled.

**Eurytides celadon** (Lucas, 1852)

This species has been recorded from our area as *sinon* (Cramer, 1780) and *zonaria* (Butler, 1869). It was originally recorded from "la Floride" (as *sinon*) by Boisduval and Le Conte, (1829: 11-13, pl. 3), and subsequently by Morris (1860: 2; 1862: 9, 10), Weidemeyer (1863: 148), Skinner (1898: 74) and Strecker (1878: 68-69). W. H. Edwards (1884: 322) excluded this taxon (as *sinon*) for want of authentication. Kimball (1965: 33) detailed all records from Florida. Schwartz (1987: 109) lists another questionable record from Key West and a possible sight record from Elliot Key.

**Papilio menatius** (Hübner, [1819])

This species has been considered the senior synonym of *Papilio victorinus* Doubleday, 1844 by Tyler *et al.* (1994) and Lamas (2004c). *Papilio victorinus* is herein considered a species-level taxon.

## PIERIDAE

**Enantia mazai** Llorente, 1984

The report of this species by Stanford (2002) from Texas apparently refers to *E. albania*; see Kendall (1974a), Llorente (1984) and Llorente *et al.* (1997).

**Eurema arbela** Geyer, 1832

This species was considered the senior synonym of *Eurema boisduvaliana* (C. Felder & R. Felder, 1865) by Lamas (2004d). *Eurema boisduvaliana* is herein considered a species-level taxon.

**Pyristitia chamberlaini** (Butler, 1898)

Zeiger (1964: 31) reported an unsubstantiated record of this species from Florida; see Scott (1986: 208) and Smith *et al.* (1994: 149). The disputed specimen is apparently lost. See discussion by Calhoun (1997: 44).

**Phoebis rurina** (C. Felder & R. Felder, 1861)

Reports of this taxon from our area refer to *Phoebis neocypris* (Hübner, [1823]).

**Pieris napi** (Linnaeus, 1758)

No North American taxa are currently considered conspecific with this Palearctic species.

**Pieris brassicae** (Linnaeus, 1758)

Accidental introductions of this species have been reported from our area, but there are no known persistent colonies in North America. See Mello (1999: sight records), Cassie *et al.* (2001: 29) and Zirlin (2002).

**Pontia callidice** (Hübner, [1800])

Reports of this species from our area refer to *P. occidentalis*. These two taxa were considered conspecific by Higgins and Riley (1970: 50) and Scott (1986: 222), but see Shapiro (1976) and Chew and Watt (2006).

**Pontia chloridice** (Hübner, [1813])

This taxon was erroneously reported from our area by Scott (1986), based on an unsupported assumption of conspecificity with *P. beckerii* (W. H. Edwards, 1871).

## LYCAENIDAE

**Eumaeus minyas** (Hübner, [1809])

This taxon was listed from our area by Weidemeyer (1864: 533), Scudder (1876: 103) and Skinner (1898: 43-44). All of these are misidentifications of *Eumaeus toxea* (Godart, [1824]). Calhoun (1997: 50) noted that the single specimen recorded from Florida is possibly lost, and that the identification is questionable. See Kendall and McGuire (1984: 15-16) for details on records of *E. toxea*.

from Texas.

**Pseudolycaena marsyas** (Linnaeus, 1758)

Pyle (1981) dubiously reported this taxon from Texas (misidentified). The species implied is the continental *Pseudolycaena damo* (H. Druce, 1875), of which no authentic records are known from our area.

**Rekoa zebina** (Hewitson, 1869)

Reports of this species from our area are misdeterminations of *Rekoa marius* (Lucas, 1857); it was excluded from our fauna by Robbins (1991).

**Rekoa stagira** (Hewitson, 1867)

This species was recorded from Texas by way of a photograph reproduced by Sill (2004: 25), and has been claimed from our region by subsequent photographers. It is impossible to exclude the possibility that these records represent *Rekoa marius* (Lucas, 1857), a species which has been rather common in southern Texas in recent years. It is excluded from our fauna until a voucher specimen can be examined.

**Cyanophrys amyntor** (Cramer, 1775)

A specimen from Brewster County, Texas, reported as this species, was misidentified. Its true identity as *Cyanophrys herodotus* (Fabricius, 1793) was confirmed by Johnson and Le Crom (1997: 26).

**Cyanophrys longula** (Hewitson, 1868)

This species was reported from southeastern Arizona by unsubstantiated sight records (Bailowitz and Brock 1991: 182). There is also one unverified record for Texas (Stanford 2002); no specimen or photographic voucher from our area has been located.

**Strymon columella** (Fabricius, 1793)

This name has been widely employed for the taxon currently known as *Strymon istapa* (Reakirt, [1867]); see Robbins and Nicolay (1999).

**Celastrina argiolus** (Linnaeus, 1758)

For many years this was considered to be a Holarctic species, but is now considered strictly Palearctic.

**Celastrina gozora** (Boisduval, 1870)

Previously listed for our area (e.g., Miller and Brown, 1981: 117), but the status of this taxon is unresolved. It is currently considered extralimital.

**Hemiargus hanno** (Stoll, 1790)

This taxon was treated as conspecific with the junior *H. ceraunus* (Fabricius, 1793) by Robbins and Lamas (2004e: 139). These two taxa are tentatively considered separate species, but the situation requires detailed study.

## RIODINIDAE

**Euselasia abreas** (W. H. Edwards, 1881)

This species was described from "Arizona" but likely based on mislabeled material (Powell 1975). The type is lost and this name is currently considered to be a synonym of *Euselasia sergia* (Godman & Salvin, 1885). It is unknown from Mexico (de la Maza *et al.* 1989) or Costa Rica (DeVries 1997), and its identity was unknown to D'Abrera (1994). Extralimital.

**Calephelis dreisbachi** McAlpine, 1971

Part of the type series was stated to have come from Arizona, but the identity of this material remains uncertain. Currently considered extralimital.

**Calephelis nilus** (C. Felder & R. Felder, 1861)

Some authors (e.g., Scott 1986, Opler 1999: 257) have used this name as senior to *Calephelis perditalis* Barnes & McDunnough, 1918. See McAlpine (1971).

**Calephelis sinaloensis nuevoleon** McAlpine, 1971

This taxon was listed from Texas by Durden (1982: 9, 13, 1990: 20). Its occurrence in our region requires formal documentation and confirmation.

**Caria domitianus** (Fabricius, 1793)

De Vries (1997) casually reported this species from Texas, but no details on this record have been presented; it is probably a misidentification of *Caria ino melicerta* Schaus, 1890.

**Apodemia hypoglaucia** (Godman & Salvin, 1878)

Glassberg (1999: 27), listed this species from our area without supporting evidence; its occurrence in our region requires formal documentation and confirmation.

## NYMPHALIDAE

**Pteronymia cottyto** (Guérin-Méneville, [1844])

A highly unlikely record of this species from Texas, based on photographs, was detailed by Bordelon and Knudson (2006: 3). It is a very unlikely stray and may have been accidentally transported.

**Greta polissena umbrana** (Haensch, 1910)

Highly unlikely records of this species from Texas were summarized by Kendall and McGuire (1984: 41-42); it is unknown from Mexico (de la Maza *et al.* 1989).

**Greta morgane oto** (Hewitson, 1855)

A highly unlikely record of this species from Texas, based on photographs, was detailed by Bordelon and Knudson (2006: 3). This species is often reared in captivity for inclusion in butterfly houses, and it is possible that the Texas record involves an escapee or accidentally transported individual.

**Adelpha bredowii** Geyer, 1837

A. Warren (2005: 272) determined that this species is extralimital.

**Philaethria diatonica** (Fruhstorfer, 1912)



Bordelon (1991: 58) recorded this species from Texas, as *Philaethria dido* (Linnaeus, 1763), on the basis of a sight record. *Philaethria diatonica* was considered to be a separate species from *P. dido* by Suomalainen and K. Brown (1984) and Lamas *et al.* (2004: 265).

***Boloria napaea*** (Hoffmansegg, 1804)

This name was widely employed for what is now known as *Boloria alaskensis* (Holland, 1900) (*e.g.* L. Miller and F. Brown 1981: 147). Crosson du Cormier (1977) revised this group and excluded the taxon *napaea* from the Nearctic region.

***Boloria titania*** (Esper, [1793])

This name was used in older literature for the southern suite of *Boloria chariclea* (Schneider, 1794) populations in North America (*e.g.*, Miller and Brown 1981: 151). According to Shepard (1998), this is a strictly Palearctic species.

***Mestra dorcas*** (Fabricius, 1775)

Listed as a synonym of *Mestra amymone* (Ménétriés, 1857) by Scudder (1875: 256), Strecker (1878: 140), and W. H. Edwards (1884: 279). The status of taxa in the genus *Mestra* remains subjective. It is considered extralimital. Also see comments under *Mestra cana* (Erichson, [1849]) in Excluded Names list.

***Hamadryas fornax*** (Hübner, [1823])

Records of this species from the United States, usually reported as *Hamadryas fornax fornacalia* (Fruhstorfer, 1907) are based on misdetermined specimens (Jenkins 1983). See Stanford (2002).

***Dynamine tithia*** (Hübner, 1823)

A Texas specimen of this species, correctly identified and illustrated by Kendall and McGuire (1984: 31-32), is deposited in the Illinois Natural History Survey collection. It is a very unlikely long-distance stray and it may have been accidentally transported. The species is unknown from Mexico (de la Maza and Turrent 1985, de la Maza *et al.* 1989).

***Diaethria asteria*** (Godman & Salvin, 1894)

A summary of the history surrounding the single specimen of this species reported from Texas is provided by Kendall and McGuire (1984: 33). This record was seriously doubted by de la Maza and Turrent (1985: 32), and shown to be virtually impossible by Luis *et al.* (1996).

***Diaethria clymena*** (Cramer, 1775)

Klots (1951) reported this species from Florida. This taxon is unknown from Mexico or the Caribbean (Kendall and McGuire 1984, de la Maza and Turrent 1985, Smith *et al.* 1994), and its occurrence in our area is assumed to be accidental.

***Diaethria anna anna*** (Guérin-Ménéville, [1844])

The west Texas *Diaethria* record (see Kendall and McGuire 1984, Neck 1996) is apparently this species or *D. astala* (Guérin-Ménéville, [1844]), since these are the only *Diaethria* species resident in northeastern Mexico (de la Maza and Turrent 1985). However, the west Texas specimen has not been positively determined and is reportedly no longer extant. There are also unverified records for both *anna* and *astala* from south Texas (Stanford 2002).

***Smyrna karwinskii*** Geyer, [1833]

All records from North America apparently represent misidentifications of *Smyrna blomfieldia* (Fabricius, 1781). See Kendall and McGuire (1984: p. 36-37).

***Vanessa carye*** (Hübner, [1812])

This South American species is occasionally reported from our area (*e.g.*, Scott 1986: 283-284) instead of *Vanessa annabella* (Field, 1971), the correct name for our taxon. See Field (1971) and Shapiro and Geiger (1989).

***Aglais urticae*** (Linnaeus, 1758)

Several individuals of this Palearctic butterfly have been captured or photographed in our region (*e.g.*, Scott and Wright 1972: 116, Glassberg 1992, Zirlin and Ingraham 1997, and Zirlin 2002). It seems that this species is either an occasional accidental introduction or, less likely, a periodic vagrant.

***Aglais io*** (Linnaeus, 1758)

Three or four almost certainly accidental introductions are known (Hinchliff 1994: 176, Anonymous 1995, Zirlin 2002); see Wahlberg and Nylin (2003) for generic placement.

***Anartia lytrea*** (Godart, 1819)

This taxon was erroneously reported from Florida by Bennett and Knudson (1976), Anderson (1974), and Scott (1986); records from Florida represent *Anartia chrysopelea* Hübner, [1831]. See Silberglied *et al.* (1979).

***Chlosyne ehrenbergii*** (Geyer, [1833])

One highly questionable record of this species from Texas was summarized by Kendall and McGuire (1984: 26-28).

***Chlosyne marina*** (Geyer, 1837)

This species was erroneously reported from the U.S. based on an assumption of conspecificity with *Chlosyne melitaeoides* (C. Felder & R. Felder, 1867) and *Chlosyne eumeda* (Godman & Salvin, 1894) by Scott (1986: 301).

***Chlosyne erodyte*** (H. Bates, 1864)

Scudder (1875: 269), W. H. Edwards (1877: 27; 1884: 27), Strecker (1878: 127), Skinner (1898: 19) and Higgins (1960) listed this species from our area, but no authentic voucher specimens are known. See Neck (1996: 121).

***Anthanassa ardys*** (Hewitson, 1864)

The single record of this species from Texas may be valid (Stanford and Opler 1993), but requires proper authentication. Details on its occurrence have not been presented in the literature and the specimen has not been examined.

***Anthanassa drusilla*** (C. Felder & R. Felder, 1861)

A single unsubstantiated record for this species exists from southern Texas (Stanford 2002).

***Morpho peleides*** Kollar, 1850

A sight record of this species from southern Texas was reported by Stallings and Turner (1946: 46), Freeman (1960), and Neck (1996: 162).

***Opsiphanes boisduvallii*** Doubleday, [1849]

Circumstances surrounding a specimen of uncertain origin were discussed by Cassie *et al.* (2001: 31).

***Erebia theano*** (Tauscher, 1809)

This taxon was long considered Holarctic, and the senior synonym of *Erebia pawloskii* Ménétriés, 1859. This is currently considered a



strictly Palearctic taxon (*e. g.* Tuzov *et al.* 1997).

***Erebia dabanensis* Ershov, 1871**

This taxon was reported from our area based on an unsupported assumption of conspecificity with *Erebia youngi* W. Holland, 1900, by Scott, (1986: 245). Troubridge and Philip (1983), Tuzov *et al.* (1997) and Belik and Zamolodchikov (2002) detailed the species-level status of the two taxa.

***Erebia kozhantshikovi* Sheljuzhko, 1925**

This taxon was reported from our area based on an unsupported assumption of conspecificity with *Erebia lafontainei* Troubridge & Philip, 1983, by Scott (1986: 245-246). See Troubridge and Philip (1983) and Tuzov *et al.* (1997).

***Erebia anyuica* Kurentsov, 1966**

This taxon was considered a senior name for *Erebia occulta* Roos & Kimmich, 1983, by various authors. It was determined to be a distinct extralimital species by Belik and Zamolodchikov (2002: 61-78).

***Erebia inuitica* Wyatt, 1966**

This taxon is known from only a single specimen, whose authenticity is dubious; see B. Warren (1968) and Ferris (1989c: 59).

## Documentation

Adequate documentation of new national records consists of 1) a specimen when its identification can be certain only by dissection or examination or 2) a photograph, when genitalic dissection is not necessary, identified by a specialist in the appropriate taxonomic group. Details should be reported in the literature (website or e-mail postings are not adequate), along with complete data, when possible. It is preferable that documented specimens should be deposited in a major entomological institution, university or college. To our knowledge no major collections have established photographic documentation files of new records, but they should be developed. **Sight records do not constitute adequate documentation for national records.**

## APPENDIX 2

## Excluded Names

## Generic and specific names attributed to the United States of America and Canada in older literature.

Each entry in this list consists of 1) a name with authorship that has been listed in error or deleted from the catalogue by reason of revision or discovery, 2) its current generic placement (for species-level names) and 3) historical commentary, often in telegraphic form. This list is in alphabetic order, and primarily includes names from the pre-1980 literature, but undoubtedly remains incomplete; any additions are solicited.

*acauda* (Oberthür, 1879) *Battus*

Listed by Skinner (1898: 74). This is an extralimital subspecies of *Battus philenor* (Linnaeus, 1771).

*acmenis* (Hübner, 1823) *Ypthimoides*

Listed by Morris (1860: 10), Weidemeyer (1864: 527) and Scudder (1875: 244). All cited Hübner where the locality is given as "Baltimore". This is an error; an extralimital species.

*adria* (Hewitson, 1873) *Ministrymon*

Listed by Aaron (1885: 180) in error. This is a synonym of *Ministrymon megacles* (Stoll, 1780), an extralimital species.

*aetna* (Boisduval, 1840) *Gegenes*

Misidentified by Scudder (1872: 79, no. 5) as "*Hedone aetna*" and listed by Strecker (1878: 170), W. H. Edwards (1884: 312) and McDunnough (1938: 34). This extralimital taxon was described from Sicily.

*aglaja* (Linnaeus, 1758) *Argynnis*

Listed by Morris (1860: 7; 1862: 46), Weidemeyer (1864: 516). A misidentification; extralimital.

*agnes* (Stoll, 1780) *Calisto*

Listed by Morris (1862: 81) and Weidemeyer (1864: 528) as a synonym of *Calisto zangis* (Fabricius, 1775), an extralimital species.

*alcmades* (C. Felder & R. Felder, [1865]) *Parides*

Previously listed as a synonym of *Parides eurimedes mylotes* (H. W. Bates, 1861), this is actually a synonym of *Parides eurimedes arriphhus* (Boisduval, 1836), an extralimital taxon.

*alcandra* Hübner, 1818 *Euthalia*

This was described from "Georgien in Florida" in error. This is a synonym of *Euthalia nais* (Forster, 1771), an extralimital species.

*alcionea* (Cramer, 1779) *Dryas*

Often listed as a synonym of *Dryas iulia iulia* (Fabricius, 1775) (e.g., L. Miller and F. Brown 1981: 134). This is the subspecies occurring in northern South America.

*also* (Boisduval, [1834]) *Oeneis*

Periodically listed as a North American taxon. It is not known what species it applies to.

*americanus* O. Bang-Haas, 1927 *Parnassius*

Bang-Haas cited all of the applications of the name *Parnassius nomion* Fischer von Waldheim, 1823, to purported North American populations (see *nomion*) and gave them a new name. All of these are misidentifications of an extralimital taxon.

*americus* Kollar 1850 *Papilio*

Listed by W. H. Edwards (1877: 10; 1883: 55, 1884: 253; 1889: pl. Papilio 3) and Barnes and McDunnough (1916: 53, pl. 4, fig. 1). These (and others) are all misidentifications; an extralimital taxon.

*anaphissa* Herrich-Schäffer, 1865 *Ithomia*

Recorded from our territory by Holland (1930: 72; pl. 8, fig. 3) as part of the confusion over Reakirt's *negreta*. Misidentified. This is a subspecies of *Ithomia iphianassa* Doubleday, 1847, and extralimital taxon.

*andersoni* (Dyar, 1904) *Boloria*

W. Holland (1928: 37) discussed this taxon. It was described from "Kootenay, B. C." and almost certainly based on mislabeled specimens. This appears to be *Boloria euphrosyne* (Linnaeus, 1758), an extralimital taxon.

*antiqua* (Herrich-Schäffer, 1863) *Pyrhocalles*

Listed by Barnes and Benjamin (1926: 25) and McDunnough (1938: 35), this Caribbean taxon has not been validly recorded from the United States.

*antoninus* (Latreille, [1824]) *Saliana*

Listed by Morris (1860: 13; 1862: 113-114) and Weidemeyer (1864: 538). Recorded in error for an unknown butterfly.

*Appias* Hübner, [1819]

Widely used as the generic name for *Glutophrissa drusilla* (Cramer, 1779). Extralimital.

*apulia* Evans, 1952 *Codatractus*

Listed in the synonymy of *Codatractus alcaeus* in error; an extralimital taxon.

*arcesilaus* (Lucas, 1852) *Eurytides*

This name is a homonym and the taxon it represents is now recognized as *Eurytides anaxilaus* (C. Felder & R. Felder, 1865). Listed by Morris (1860: 2; 1862: 11-12) and Weidemeyer (1863: 146), all in error. Extralimital.

*archidamas* (Boisduval, 1836) *Battus*

Listed by Weidemeyer (1863: 148). This name is a synonym of *Battus polydamas psittacus* (Molina, 1782); an extralimital taxon.

*artica* Verity [1911] *Pieris*

Variously listed from North America (e.g., L. Miller and F. Brown 1981: 71); an extralimital taxon.

*argyroclines* (Bates, 1866) *Calephelis*

Listed by McAlpine (1961: 249, fig. 495 ♂ genit.), but represents misidentified *Calephelis fremani* McAlpine, 1971 (not yet described).

*argyrognomon* (Bergsträsser, [1779]) *Plebejus*

Widely misidentified in North America for *Plebejus idas* (Linnaeus, 1761). Extralimital.

*arida* (Skinner, 1917) *Phyciodes*

This is either a synonym of the excluded *Phyciodes mylitta thebais* Godman & Salvin, 1878, or an extralimital subspecies of *P. mylitta* (W. H. Edwards, 1861).

*ascalaphus* (Staudinger, 1875) *Staphylus*

Recorded for the United States by Barnes and Benjamin (1924: 370); considered a synonym of *S. mazans* by Evans (1953: 91) and dos Passos (1964: 23), but a distinct extralimital species-level taxon (Steinhauser 1989: 39, 41).

"*astyanax*" "*astinax*" *astianax* (Stoll, 1781) *Anaea*

Listed by Weidemeyer (1864: 524), W. H. Edwards (1884: 287) and Strecker (1878: 147), as misidentifications. This is a synonym of *Anaea troglodyta astina* (Fabricius, 1793), an extralimital taxon.

*athalia* (Rottensburg, 1775) *Mellicta*

Listed by Bauer (1961: 140-141). It is presumed that this was a mislabeled Palearctic specimen, possibly *Mellicta ambigua nippona* Butler, 1878. See *mayi* Gunder, 1928.

"*augias* Hübner" *Hylephila*

Listed as a synonym of *Hylephila phyleus* (Drury, 1773) by Strecker (1878: 164) and Skinner (1898: 84). It is not known what taxon this refers to.

*ausonia* (Hübner, [1804]) *Euchloe*

Listed by Morris (1860: 4; 1862: 351) and Strecker (1878: 77), where *ausonides* (Lucas, 1852) was considered a variety of this species. These are all misidentifications. Higgins and Riley (1970: 51) established *ausonia* as a Holarctic species but this has not been supported by any subsequent research. Extralimital.

*autodice* (Hübner, [1818]) *Tatochila*

Listed by Morris (1860: 4; 1862: 18-19), following Boisduval (1836: 539). This is a misidentification. Extralimital.

*bacchis* (Doubleday, 1849) *Diaethria*

Figured in Howe (1975: pl. 15, figs. 5, 14 and dust jacket) for *Diaethria asteria*. This is a misidentification; extralimital.

*balliston* Hübner, [1823] *Anthe*

Listed by Morris (1860: 12) and Weidemeyer (1864: 534), referring to the type-locality given by Hübner as "...aus Georgien in Florida..." Scudder (1876: 113) concluded that this is probably not a North American insect. It is currently considered to represent a taxon of *Anthe*, an extralimital genus.

*barbouri* Clench, [1943] *Brephidium*

A synonym of *Brephidium exilis isophthalma* (Herrich-Schäffer, 1862), as listed by L. Miller and F. Brown (1981: 113); extralimital.

*batabano* (Lucas, 1857) *Phocides*

Listed by W. H. Edwards (1844: 321), Strecker (1878: 163) and Skinner (1898: 99). Misidentified for *Phocides pigmalion okeechobee*



(Worthington, 1881). Extralimital.

*bigutta* (Prittwitz, 1868) *Gesta*

This is a synonym of *Gesta gesta* (Herrich-Schäffer, 1863), an extralimital taxon (see Excluded Species list).

*blanda* (Plötz, 1884) *Gesta*

This is a synonym of *Gesta gesta* (Herrich-Schäffer, 1863), an extralimital taxon (see Excluded Species list).

*bolina* (Linnaeus, 1758) *Hypolimnas*

Listed by W. H. Edwards (1881: 30; 1884: 284). These are misidentifications of *Hypolimnas misippus* (Linnaeus, 1764), per Calhoun (1997: 50). Extralimital.

*britomartis* (Assman, 1847) *Mellicta*

Listed by Verity (1935) from "high Mtns. of Montana and Alberta". Based on misidentified and/or mislabeled material. Extralimital.

*brusus* (Burmeister, 1878) *Gesta*

This is a synonym of *Gesta gesta* (Herrich-Schäffer, 1863), an extralimital taxon (see Excluded Species list).

*bryoniae* (Hübner, 1805) *Pieris*

Various recorded from North America (*e.g.*, W. H. Edwards, 1884: 258; Skinner 1898: 62). The status of taxa in the genus *Pieris* continues to evolve, and this name may eventually be employed for some North American populations. Currently considered extralimital.

*butleri* Scudder, 1874 *Aphrissa*

Previously listed as a synonym of *Aphrissa statira* (Cramer, 1777) (*e.g.*, L. Miller and F. Brown 1981: 87), this is now considered a synonym of *Aphrissa boisduvalii* (C. Felder & R. Felder, 1861). Extralimital.

*c-album* (Linnaeus, 1758) *Polygonia*

Listed by Morris (1862: 55) referring to Boisduval and Le Conte (1835: 190-191). W. H. Edwards (1884: 323) excluded it for want of authentication. Strecker (1878: 129) determined that this is a Holarctic name including *Polygonia faunus* as a synonym. It is herein considered extralimital.

*c-aureum* (Linnaeus, 1758) *Polygonia*

Listed by Morris (1860: 8; 1862: 53) in reference to Cramer (1775: pl. 19, figs. E, F) and Smith and Abbot (1797: pl. 11). Also listed by Strecker (1878: 127). These are misidentifications. Extralimital.

*cadmus* (Cramer, 1775) *Historis*

Listed by Morris (1860: 9; 1862: 351), Weidemeyer (1864: 523), W. H. Edwards (1871: 23), Strecker (1878: 147) and L. Miller and F. Brown (1981: 184). This is the Caribbean subspecies of *Historis acheronta* (Fabricius, 1775). Calhoun (1997: 50) considered this dubiously reported for Florida, but noted that at least one Floridian specimen may be authentic.

*caeneus/cereus* Linnaeus, 1767 *Emesis*

Also spelled "cernes" and "cerea." Listed by Morris (1860: 13; 1862: 104), Weidemeyer (1864: 532), W. H. Edwards (1877: 38; 1884: 294), Strecker (1878: 104-105) and Skinner (1898: 43). All of these are misidentifications of *Calephelis virginienensis* (Guérin-Ménéville, [1832]). *Emesis cereus* (Linnaeus, 1767) and its synonym *caeneus* (Linnaeus, 1767) are extralimital.

*calafia* (R. C. Williams, 1926) *Urbanus*

Often listed in the synonymy of *Urbanus dorantes dorantes*, this Baja Californian subspecies is extralimital (A. Warren 2000: 548).

*californica* Reakirt, 1866 *Mechanitis*

Described from "Los Angeles, California" and subsequently listed by various authors. The type locality is obviously spurious, and the types were undoubtedly captured in Panama. It is currently considered a synonym of *Mechanitis polynnia isthmia* H. W. Bates, 1863.

*californica* Scudder, 1872 *Potanthus*

Described from the U.S., but the types were undoubtedly mislabeled. Listed by W. H. Edwards (1877: 49; 1884: 308), Strecker (1878: 175), Skinner (1898: 79) and Dyar (1903: 48). This is a synonym of *Potanthus dara* (Kollar, [1844]), a Palearctic species.

*calus* (Godart, [1824]) *Calycopsis*

Described from "America" in error. This is a South American taxon.

*cana* (Erichson, [1849]) *Mestra*

The name *Cystineura floridana* Strecker, 1900, was given to a series of specimens purported to have come from the "Everglades of Florida," but there has been confusion regarding their supposed origin (Mengel 1903: 159-160). It seems likely that the types are mislabeled specimens. The name *cana* has been listed in association with *floridana* (*e.g.* L. Miller and F. Brown 1981: 182). Subsequently these records have been considered to belong to *Mestra dorcas hersilia* (Fabricius, 1776), which is a senior synonym of *cana*. See Kimball (1965: 9) and Masters (1970: 207). Lamas *et al.*, (2004: 235) treated *cana* and *floridana* as synonyms of *dorcas hersilia* (Fabricius, 1776).

The status of *floridana* remains in limbo.

*carduelis* (Cramer, 1775) *Vanessa*

Listed by Morris (1860: 8), Scudder (1875: 254) and Strecker (1878: 137). Extralimital.

"carin" (Hübner, 1823) *Phemiades*

A *nomen nudum* in the synonymy of *Telicota augias* (Linnaeus, 1763) sensu Hübner. It was listed by L. Miller and F. Brown (1981: 33), as a misidentification of *Hylephila phyleus* (Drury, 1773).

*carteri* (Riley, 1926) *Dryas*

Listed by M. Bates (1934: 168-169). A misidentification. This is the subspecies of *Dryas iulia* (Fabricius, 1775) occurring in the Bahamas.

*cartomes* (Mabille & Boulet, 1912)

Recorded as a synonym of *Astraptus alardus* (Stoll, 1790); determined by Mielke and Casagrande (2002: 36) to be a synonym of *Astraptus latimargo latimargo* (Herrich-Schäffer, 1869), an extralimital taxon.

*cassioides* (Hohenwarth, 1793) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]); extralimital.

*castalia* (Fabricius, 1793) *Glutophrissa*

Generally misidentified for *Kricogonia lyside* (Godart, 1819); this is actually the Jamaican subspecies of *Glutophrissa drusilla* (Cramer, 1779).

*catalina* (Fabricius, 1793) *Leptotes*

Variouly recorded from the U.S. Misidentified. This is an Antillean subspecies of *Leptotes cassius* (Cramer, 1775).

*catena* Staudinger, 1861 *Hesperia*

Strecker (1878: 167-168, 191) recorded this taxon from Labrador, but it is the subspecies of *Hesperia comma* (Linnaeus, 1758) occurring in Lapland.

*Catophaga* Hübner, [1819]

A synonym of *Appias* Hübner, [1819]; excluded with that name.

*cepio* (Godman & Salvin, 1889) *Eurema*

A synonym of *Eurema dairia hydia* (C. Felder & R. Felder, 1861); excluded with that name.

*cervantes* (Graslin, 1836) *Erynnis*

Misidentified from the U.S. by Boisduval (1852: 310) and listed by Morris (1862: 351), Weidemeyer (1864: 539), W. H. Edwards (1877: 56) and Strecker (1878: 179). This is a synonym of *Erynnis tages* (Linnaeus, 1758), a Palearctic taxon.

*chlonographa* Hübner, [1818] *Leptosis*

Listed by Morris (1860: 4) in reference to Boisduval and Le Conte ([1830]: 46-47, pl. 17). Extralimital.

*chrysotheme* (Esper, [1777]) *Colias*

Listed by Morris (1860: 5; 1862: 28-29) in reference to Boisduval (1836: 643, pl. 2, fig. 5) and Boisduval and Le Conte ([1830]: 62). These are misidentifications. Strecker (1878: 83) considered this the senior synonym of *Colias eurytheme* Boisduval, 1852, as did Hovanitz (1943: 1-4). This notion has not been substantiated. Extralimital.

*cillene* (Cramer, 1779) *Dryas*

Listed by Scudder (1875: 257), W. H. Edwards (1877: 19; 1884: 267), Strecker (1878: 108, 187) and Skinner (1898: 3). This is a synonym of *Dryas iulia delila* (Fabricius, 1775), an extralimital taxon.

*cincta* (W. H. Edwards, 1864) *Janatella*

Edwards described this taxon from "Texas. Florida." in error. This is a synonym of *Janatella leucodesma* (C. & R. Felder, 1861), a South American species.

*cinna* (Cramer, 1779) *Marpesia*

Misidentified for *Marpesia chiron* (Fabricius, 1775) by Swainson ([1833]: pl. 95). This is a synonym of *Marpesia orsilochus* (Fabricius, 1776), an extralimital taxon.

*cinyras* Ménétériés, 1857 *Papilio*

Listed by Skinner (1905: 26), citing Holland (1898: pl. 42, fig. 4). This taxon is an extralimital subspecies of *Papilio thoas* Linnaeus, 1771.

*clarius* Eversmann, 1843 *Parnassius*

Listed by Morris (1860: 3; 1862: 14), Weidemeyer (1863: 148) and W. H. Edwards (1871: pl. 4; figs. 1-4), all following Boisduval (1869: 12) in error. Extralimital.

*cleo* (Hübner, [1800]) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]); excluded with that name.

*cleobaea* (Godart, 1819) *Lycorea*

Previously listed as the senior synonym of *Lycorea halia* (Hübner, 1816) (*e.g.*, L. Miller and F. Brown 1981: 205). It is an extralimital subspecies.

*cleothera* (Godart [1819]) *Danaus*

Listed by Clark (1941: 539-540). Misidentified; this is an Antillean subspecies of *Danaus gilippus* (Cramer, 1775).

*complana* (Herrich-Schäffer, 1869) *Eutychide*

One specimen listed by Evans (1955: 198) as from "Texas" is presumably mislabeled. Extralimital.

*corbis* (Godman & Salvin, 1889) *Battus*

Listed as a synonym of *Papilio acauda* by Skinner (1898: 74); excluded with that name.

*corescene* (Schaus, 1902) *Cymaenes*

This is a synonym of *Cymaenes odilia* (Burmeister, 1878), an extralimital taxon.

*Cosmodesmus* Haase, 1891

This genus-group name is excluded based on the re-arrangement of genus-group taxa in the Leptocircini.

*crambis* (Freyer, [1844]) *Oeneis*

Listed by various authors (*e.g.*, L. Miller and F. Brown 1981: 203) as occurring in North America. It is a Palearctic taxon.

*Crenis* Hübner, 1821

Previously listed as a synonym of *Heliconius Kluk*, 1780 (*e.g.*, L. Miller and F. Brown 1981: 135), this is currently considered a synonym of *Laparus* Billberg, 1820. Extralimital.

*creta* (Verity, 1916) *Nymphalis*

Listed by A. Clark and L. Clark (1937: 91-93) in an attempt to apply a European name to a North American taxon.

*cuvierii* (Godart, 1819) *Eunica*

Mentioned as a misidentification by Strecker (1878: 140). This is a South American species.

*cyaneacula* (C. Felder & R. Felder, 1867) *Myscelia*

Previously listed as a synonym of *Myscelia ethusa* (Doyère, [1840]) (*e.g.*, L. Miller and F. Brown 1981: 181), it is an extralimital subspecies of that taxon.

*cybira* (Hewitson, 1873) *Strymon*

Listed by L. Miller and F. Brown (1981: 112), this is a Caribbean taxon.

*dara* (Kollar, [1844]) *Potanthus*

Listed by Dyar (1903: 48) as a result of confusion over mislabeled specimens. A Palearctic species.

*daraba* (Hewitson, 1867) *Strymon*

Listed by dos Passos (1964: 56). This is a South American species.

*delila* (Fabricius, 1775) *Dryas*

Listed by W. H. Edwards (1877: 19; 1884: 267), Strecker (1878: 108, 187) and Skinner (1898: 3). These are misidentifications. This is a South American subspecies of *Dryas iulia* (Fabricius, 1775).

*demoleus* Linnaeus, 1758 *Papilio*

Tilden (1967: 187) recorded a specimen from Palo Alto, Santa Clara County, California; an accidental import. Extralimital.

*demophoon* (Ménétriés, 1855) *Heliconius*

Previously listed as a synonym of *Heliconius erato petiverana* (E. Doubleday, 1847) (*e.g.*, L. Miller and F. Brown 1981: 135). This is a Central American subspecies.

"*diaphana*" Auct. [*diaphanus* (Drury, 1773)] *Greta*

Listed by Morris (1862: 39-40), Weidemeyer (1864: 513) and W. H. Edwards (1870: 10). Scudder (1875: 246) and W. H. Edwards (1877: 60; 1884: 322) excluded this name for want of authentication. Calhoun (1997: 50) considered records of this taxon erroneous. This is an Antillean species.

*dilucida* (Möschler, 1876) *Chiomara*

This is a synonym of *Chiomara asychis* (Cramer, 1780), an extralimital taxon (see Excluded Species list).



*donzelii* Boisduval, 1832 *Aricia*

Listed by Weidemeyer (1864: 536); misidentified. This is a synonym of *Aricia nicias* (Meigen, 1829), an extralimital taxon.

*dorilis* (Hufnagel, 1766) *Heodes*

Listed by Möschler (1883: 115; 1885: 280). A misidentification. This is a synonym of *Heodes tityrus* (Poda, 1761), an extralimital taxon.

*dromus* (Fabricius, 1793) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]); excluded with that name.

*drury* Latreille [1824] *Wallengrenia*

Various spelled as "*druri*" and "*druryi*," listed as a synonym of *Wallengrenia egeremet* (Scudder, 1863). It is not conspecific with *W. egeremet* and probably not with *Wallengrenia otho* (J. E. Smith, 1797). Extralimital.

"*dryalus*" authorship, genus unknown

This name was listed by Weidemeyer (1864: 520) as a synonym of *Diaethria clymena* (Cramer, 1776). It is not known what species this refers to.

*ecclipsis* (Linnaeus, 1763) *Gonepteryx*

Listed by Morris (1860: 4, citing Cramer (1777: pl. 129), Herbst (1792: pl. 103), and Strecker (1878: 79, 185). These are misidentifications. Extralimital.

*edata* (Plötz, 1883) *Cymaenes*.

Listed by H. Freeman (1945: 103) in error. This is an extralimital subspecies of *Cymaenes odilia* (Burmeister, 1878); see Excluded Species list.

*edna* Doubleday, 1843 *Lycaena*

Listed by Weidemeyer (1864: 536) citing Doubleday and Westwood ([1851]: pl. 76). This is a synonym of *Lycaena salustius* (Fabricius, 1793) from New Zealand.

*edusa* Fabricius, 1787 *Colias*

Listed by Morris (1860: 5; 1862: 27-28) and Weidemeyer (1863: 152), following Boisduval (1836: 638) and Boisduval and Le Conte ([1830]: 59). These are misidentifications. Ménétériés (1855: 80) described *Colias Edusa* var. *californiana* (a synonym of *C. eurytheme* Boisduval, 1852). Extralimital.

*egris* Weidemeyer, 1864 *Hoemetara* [sic!]

This name was listed from the "United States." It is a *nomen nudum*, probably applicable to *Haemetera pyrame* (Hübner, [1819]). Extralimital.

*elatheia* (Cramer, 1777) *Eurema*

Listed by Morris (1862: 350), Weidemeyer (1863: 153) and Strecker (1878: 85), following Boisduval (1836: 664-665). W. H. Edwards (1877: 60; 1884: 322) omitted this name from our fauna for lack of evidence of its occurrence. See Calhoun (1997: 49).

"*elis*" Smith, 1891 *Pholisora*

This name was listed by Smith (1891: 17, no. 613) without any indication of what species it might represent.

*endymion* (Fabricius, 1775) *Electrostrymon*

Recorded in error on various occasions from Florida and Texas; in all cases other taxa were involved. Schwartz (1987: 128) recently reported this taxon from Grassy Key, Florida, but Calhoun (1997: 45, 50) noted that this is a misidentification of *Electrostrymon hugon* (Hewitson, 1868).

*epithoas* Oberthür, 1897 *Papilio*

Previously listed (e.g., L. Miller and F. Brown, 1981: 64) as a synonym of *Papilio thoas oviedo* Gundlach, 1866, an extralimital taxon.

*Erchia* Walker, 1854

Listed as a synonym of *Melanis* Hübner, [1819] by L. Miller and F. Brown (1981: 130). It is now considered a synonym of *Setabis* Westwood, 1851. Extralimital.

*erippus* (Cramer, 1775) *Danaus*

Listed by Morris (1860: 6; 1862: 37-38), Scudder (1875: 245), Strecker (1878: 105) and Skinner (1898: 1). These are misidentifications. This is a South American species.

*Erythia* Hübner, [1819]

This is a synonym of *Euselasia* Hübner, [1819]; extralimital.

*euphrosyne* (Linnaeus, 1758) *Boloria*

Occasionally listed in association with the name *andersoni* Dyar, 1904. Extralimital.

*europome* (Esper, [1779]) *Colias*

Misidentified by Haworth (1802: 5) for *Colias philodice philodice* Godart, 1819. Listed by Strecker (1878: 80, 185) and Skinner (1898: 68). Extralimital.

*euryale* (Klug, 1836) *Anetia*

Listed by Weidemeyer (1864: 517). A misidentification of an extralimital taxon.

*Eurygonia* Boisduval, 1836

This is a synonym of *Euselasia* Hübner, [1819]; extralimital.

*eurytulus* (Hübner, [1819]) *Strymon*

Listed by Scudder (1876: 107), W. H. Edwards (1877: 41), Strecker (1878: 89) and Skinner (1898: 48), in the synonymy of *Strymon columella* (Fabricius, 1793), an extralimital species.

*Euselasia* Hübner, [1819]

Excluded with *Euselasia abreas* (W. H. Edwards, 1881).

*euterpe* (Ménétriés, 1832) *Pyristia*

Some have considered that southern Floridian records of *P. lisa* (Boisduval & Le Conte, [1830]) represent this Antillean subspecies. Calhoun (1997: 49) considers this an erroneous record.

*facuna* (Hewitson, 1877) *Erora*

Misidentified for *Cyanophrys goodsoni* (Clench, 1946). This is a Neotropical species.

*filenus* (Poey, 1832) *Hemiargus*

Listed by Morris (1860: 12; 1862: 82) and W. H. Edwards (1877: 48; 1884: 307) based on the image in Boisduval and Le Conte ([1835]: pl. 35) of *pseudoptiletes*. These references are synonymous with *Hemiargus ceraunus antibubastus* Hübner, 1818. *Hemiargus ceraunus filenus* is a Cuban taxon.

*figal* (Herbst, 1804) *Boloria*

Listed by Weidemeyer (1864: 517). A misidentification. This is a subspecies of the Palearctic *Boloria euphrosyne* (Linnaeus, 1758). Extralimital.

*flaveola* (Mabille, 1891) *Atalopedes*

Previously listed as a synonym of *Atalopedes campestris* (Boisduval, 1852). Mielke and Casagrande (2002: 46) determined that this is a senior synonym of *Atalopedes clarkei* Burns, 1989, an extralimital taxon.

*floridana* (Strecker, 1900) *Mestra*

See comments under *Mestra cana* (Erichson, [1849]).

*gaika* (Trimen, 1862) *Zizula*

Widely misidentified for *Zizula cyna* (W. H. Edwards, 1881). This is an African species.

*gardetta* De Loche, 1801 *Coenonympha*

Listed by Strecker (1878: 160) as a synonym of *Coenonympha pamphilus* (Linnaeus, 1758); excluded with that species.

*godartii* (Boisduval, 1870) *Eumaeus*

Listed by Skinner (1898: 44) as a synonym of *Eumaeus minyas* (Hübner, [1809]). This is a species-level taxon occurring in Central America.

*gratiosa* (Doubleday, 1847) *Eurema*

Listed by Reakirt (1863: 359); misidentified. This name applies to an extralimital subspecies of *Eurema arbela* Geyer, 1832.

*grullus* (Mabille, 1888) *Astraptes*

Previously recorded as a synonym of *Astraptes alardus*, but determined by Mielke and Casagrande (2002: 36) to be a synonym of *Astraptes latimargo latimargo* (Herrich-Schäffer, 1869), an extralimital taxon.

## "hartwegi" authorship, genus unknown

Weidemeyer (1864: 518) lists "*Grapta Hartwegii* United States". It is not known what butterfly (if any) this refers to.

*hermas* (Hewitson, 1864) *Anthanassa*

Listed by Scudder (1875: 268) and Strecker (1878: 119). W. H. Edwards (1877: 61; 1884: 323) excluded it for want of authentication. This is either a species-level taxon or a subspecies of *Anthanassa frisia* (Poey, 1832) occurring in South America.

*herse* (Borkhausen, 1788) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]). Extralimital.

*hersilia* (Cramer, 1777) *Phoebis*

Previously listed as a synonym of *Phoebis argante argante* (Fabricius, 1775), it is now considered a synonym of *Phoebis argante larra* (Fabricius, 1798), an extralimital taxon; see Lamas (2004d: 104).

*Hiposcritia* Geyer, 1832

A synonym of *Appias* Hübner, [1819]; excluded with that name.

*hippomonuste* (Hübner, [1819]) *Ascia*

Previously employed as a synonym of *Ascia monuste monuste* (Linnaeus, 1764) (e.g., L. Miller and F. Brown, 1981: 73). It is a synonym of *Ascia monuste orseis* (Godart, 1819), a South American taxon; see Lamas (2004d: 117).

*hortensia* (Blanchard, 1852) *Euptoieta*

Listed by Strecker (1878: 109). A misidentification. This is a species-level taxon occurring in South America.

*hyale* (Linnaeus, 1758) *Colias*

Listed by Morris (1860: 5; 1862: 31-32), citing Boisduval (1836: 650). These are misidentifications. Extralimital.

*hyperipte* Hübner, [1823] *Eunica*

Listed as a synonym of *Eunica monima* (Stoll, 1782) by W. H. Edwards (1884: 283). Mentioned as a misidentification by Strecker (1878: 140). This is a synonym of *Eunica cuvierii* (Godart, 1819), an extralimital taxon.

*hypoxanthe* (Doubleday, 1847) *Lycaena*

Barnes and Benjamin (1926: 95-96) claimed that there are three Boisduval specimens from Canada in the USNM. They are misidentified. This name is currently not associated with any taxon.

*hysius* (Godart, [1824]) *Calisto*

Listed by Morris (1860: 11). A misidentification. Extralimital.

*intermedius* Ménétériés, 1855 *Parnassius*

Listed by Weidemeyer (1863: 149) in error. Extralimital.

*isis* (Hübner, [1800]) *Boloria*

Previously listed as a synonym of *Boloria napaea* (Hoffmansegg, 1804); excluded with that species.

*isophthalma* (Herrich-Schäffer, 1862) *Brephidium*

Various listed for our area (e.g., L. Miller and F. Brown, 1981: 113). This is an extralimital subspecies of *Brephidium exilis* (Boisduval, 1852).

*ixion* (Fabricius, 1775) *Strymon*

Listed by Morris (1862: 101), Weidemeyer (1864: 534) and Strecker (1878: 185), as a synonym of *Strymon acis* (Drury, 1773). It is a *nomen dubium* and not applicable to any species at this time.

*jamaicensis* Bates, 1864 *Danaus*

Clark (1941: 540) cited a Floridian specimen of this taxon from the Barnes collection. This is the subspecies of *Danaus gilippus* (Cramer, 1775) occurring on Jamaica. Calhoun (1997: 50) determined that this is undoubtedly mislabeled.

*jamaicensis* Möschler, 1886 *Anartia*

Occasionally listed for *Anartia jatrophae guantanamo* Munroe, 1942. Extralimital.

*jamaicensis* (Schaus, 1902) *Pyrrhocalles*

Considered by some to be a subspecies of *Pyrrhocalles antiqua* (Herrich-Schäffer, 1863), but may be a species-level taxon. Listed for our area by dos Passos (1964: 16) but not L. Miller and F. Brown (1981). F. Brown and Heineman (1972: 397-398) discussed the basis for the Barnes and Benjamin (1926: 25) record for the United States, a specimen in the USNM from "South Arizona. Poling" which is almost certainly mislabeled. Extralimital.

*janice* (Ehrmann, 1907) *Heliopetes*

Listed in the synonymy of *Heliopetes arsalte* (Linnaeus, 1758), now considered to be a synonym of *Heliopetes petrus* (Hübner [1819]), an extralimital taxon.

*jethys* (Boisduval, 1836) *Enantia*

Listed by Skinner (1905: 21). Misidentified; extralimital.

*kruegeri* Röber, 1926 *Pyrrhocalles*

A synonym of *Pyrrhocalles antiqua* (Herrich-Schäffer, 1863); excluded with that species.

*Lade* de Nicéville, 1898

A synonym of *Appias* Hübner, [1819]; excluded with that name.



*laidion* Borkhausen, 1788 *Coenonympha*

Associated with *Coenonympha pamphiloides* Reakirt, 1866; excluded with that name.

*Laparus* Billberg, 1820

Previously listed as a synonym of *Heliconius* Kluk, 1780 (e.g., L. Miller and F. Brown, 1981: 135), but currently considered a distinct genus-level taxon. Extralimital.

*lapponica* Staudinger, 1871 *Colias*

Listed as a variety of *Colias palaeno* (Linnaeus, 1761) by Strecker (1878: 80) and Skinner (1898: 70). Extralimital.

*larra* (Fabricius, 1798) *Phoebis*

Previously listed as a synonym of *Phoebis argante argante* (Fabricius, 1775), this is now considered an extralimital subspecies of that taxon (Lamas 2004d: 104).

*leca* (Butler, 1870) *Heliopetes*

Misidentified as a synonym of *Heliopetes laviana* (Hewitson, 1868); extralimital.

*leseur* (Latreille, [1824]) *Tisias*

Listed by Morris (1860: 14; 1862: 118-119) and Weidemeyer (1864: 538, 541). Obviously misidentified. Extralimital.

*leucodesma* (C. Felder & R. Felder, 1861) *Janatella*

Listed through association with the name *cincta* (W. H. Edwards, 1864). Extralimital.

*leucodice* (Eversmann, 1843) *Aporia*

Listed by Morris (1860: 3; 1862: 18) following Boisduval (1852: 284, 1869: 12). This is a misidentification of an unknown pierid species. Extralimital.

*limoneus* (C. & R. Felder, 1861) *Eurema*

Previously listed as the subspecies of *Eurema salome* (C. Felder & R. Felder, 1861) occurring in the United States (e.g., L. Miller and F. Brown, 1981: 89). This is a South American subspecies.

*lycaste* (Fabricius, 1793) *Hypothyris*

Listed by Reakirt (1866d: 218, 223) as *Ceratinia Lycaste* var. *negreta*; subsequently listed by Strecker (1878: 107) and Skinner (1898: 2). W. H. Edwards (1884: 322) excluded it for want of authentication; see *negreta* (Reakirt, 1866).

*lyceas* (Godman & Salvin, 1889) *Charonias*

Recorded by Skinner (1900: pl.2, fig. 28) and Barnes (1900: 331), but these are misidentified *Neophasia terlootii*. This is a synonym of *Charonias eurytele dismorphites* (Butler, 1872), an extralimital taxon.

*lydia* (C. Felder & R. Felder, 1861) *Eurema*

Previously listed as a continental subspecies of *Eurema daira* (Godart, 1819) occurring in the southwestern United States (e.g., L. Miller and F. Brown, 1981: 88), but this is a South American subspecies (Lamas 2004d: 106).

*maesoides* (Butler, [1879]) *Potanthus*

A synonym of *Potanthus omaha* (W. H. Edwards, 1863), listed by Skinner (1898: 79) in the confusion surrounding the occurrence of that species in North America. Extralimital.

*Marmessus* Hübner, [1819]

This is a synonym of *Euselasia* Hübner [1819]. Extralimital.

*mars* (Fabricius, 1776) *Strymon*

Listed by Morris (1862: 101), Weidemeyer (1864: 534), Scudder (1876: 108), Strecker (1878: 88) and Skinner (1898: 48) as a synonym of *Strymon acis* (Drury, 1773). This is an extralimital subspecies of that taxon.

*mancinus* (Herrich-Schäffer, 1869) *Phocides*

Listed by W. H. Edwards (1884: 321), Strecker (1878: 163), and Skinner (1898: 99). Misidentified for *Phocides pigmalion okeechobee* (Worthington, 1881). Extralimital.

*marsyas* (W. H. Edwards, 1870) *Polygonia*

This was described from "California." From the description and figure in W. H. Edwards (1875, pl. Grapta 2) it was determined that this is the European *Polygonia c-album* (Linnaeus, 1758). See dos Passos (1969: 155-158).

*mayi* Gunder, 1928 *Mellicta*

Described from "Small high valley 4 miles west of Ptarmigan Valley, Banff, Alberta." This was listed as *Melitaea mayi* by McDunnough (1938: 18) and *Mellicta aethalia* (Rottemburg, 1775) by Bauer (1961: 140-141). It is presumed that the type is a mislabeled Palearctic specimen, possibly *Mellicta ambigua nippona* Butler, 1878. Extralimital.

*megalippe* (Hübner, [1826]) *Danaus*

Listed by Scudder (1875: 245), Strecker 1878: 106), Skinner (1898: 1) and Clark (1941: 536-537). Misidentified for *Danaus plexippus* (Linnaeus, 1758), this is a Neotropical subspecies. Calhoun (1997: 50) determined that Florida specimens represent variants of *D. p. plexippus*.

*megarus* (Godart, [1824]) *Strymon*

Listed by L. Miller and F. Brown (1981: 103) as a synonym of *Tmolus echion* (Linnaeus, 1767), this is a Neotropical species in the genus *Strymon*.

*meleager* (Esper, [1777]) *Polyommatus*

Listed by Strecker (1878: 99-100) as a synonym of *Albulina orbitulus* (de Prunner, 1798), misidentified. Excluded with that name.

*melite* (Linnaeus, 1763) *Enantia*

Listed by Morris (1862: 350), Strecker (1878: 73) and Skinner (1898: 60). W. H. Edwards (1884: 322) excluded it for want of authentication. This taxon was misidentified for *Enantia albania* (H. W. Bates, 1864). Extralimital.

*melicerta* (Borkhausen, 1788) *Ochlodes*

Listed by Strecker (1878: 167) as part of his misidentification of *Ochlodes sylvanus* (Esper, [1779]).

*menalcas* Poda, 1761 *Coenonympha*

Listed by Strecker (1878: 160) as a synonym of *Coenonympha pamphilus* (Linnaeus, 1758); excluded with that species.

*menippe* (Hübner, 1816) *Danaus*

Listed by Scudder (1875: 245), Strecker (1878: 106) and Skinner (1898: 1). These are misidentifications of *Danaus erippus* (Cramer, 1775), of which *menippe* is an unnecessary replacement name. Extralimital.

*metius* (Mabille, 1891) *Monca*

A synonym of *Monca telata* (Herrich-Schäffer, 1869), excluded with that name. See Excluded Species list.

*midea* (Ménétriés, 1832) *Eurema*

Listed by Morris (1862: 350) and Weidemeyer (1863: 153), in a reference to Ménétriés (1832: pl. 2) and Boisduval (1836: 659). It was omitted by W. H. Edwards (1877: 60; 1884: 322) for want of authentication. This name is a synonym of *Eurema elathea elathea* (Cramer, 1777), an extralimital taxon.

*mingo* (W. H. Edwards, 1866) *Potanthus*

Listed by W. H. Edwards (1877: 49; 1884: 308), Strecker (1878: 175), Skinner (1898: 79) and Dyar (1903: 48). As discussed by W. Holland (1898: 57-58), this is a Palearctic species mislabeled from our area.

‡"minor" Dufrane, 1947 *Glutophrissa*

This is a synonym of *Appias drusilla poeyi* Butler, 1872, an extralimital taxon.

*monica* (Reakirt, 1866) *Euchrysops*

Described from "California" in error. Listed by Scudder (1876: 114), Strecker (1878: 91), and figured by Strecker (1874: 89, pl. 10, figs. 18, 19?). Strecker (1900: 20) determined this to be a synonym of *Hesperia cnejus* Fabricius, 1798, from the East Indies. Currently considered as synonym of *Euchrysops cnejus* (Fabricius, 1798).

*morrisii* (Reakirt, 1866) *Boloria*

Described from "California." Listed by Scudder (1875: 262). Determined by W. H. Edwards (1877: 61; 1884: 323) to be *Boloria euphrosyne* (Linnaeus, 1758), a Palearctic species; also see Strecker (1878: 118).

*narses* Staudinger, 1888 *Lasaia*

Listed by Barnes and McDunnough (1913: 182-183). Misidentified for *Lasaia sula peninsularis* Clench, 1972, not yet described. Extralimital.

*negra* C. Felder & R. Felder, 1867 *Junonia*

Listed as a synonym of *Junonia coenia* Hübner, [1822], by Kirby (1871: 188); also listed by Skinner (1905: 11). These are misidentifications. Extralimital.

*negreta* (Reakirt, 1866) *Ithomia*

Described from "Los Angeles, California," the type locality is obviously spurious. This name is currently considered a synonym of *Ithomia iphianassa panamensis* H. W. Bates, 1863, an extralimital taxon.

*neleus* (Freyer, 1833) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]); excluded with that name.

*nenopsis* (Reakirt, 1866) *Boloria*

Described from "California" and listed by Scudder (1875: 262). Determined by W. H. Edwards (1877: 61; 1884: 323) to be a mislabeled

*Boloria dia* (Linnaeus, 1767), an extralimital taxon.

*nephele* Hufnagel, 1766 *Coenonympha*

Listed by Strecker (1878: 160) as a synonym of *Coenonympha pamphilus* (Linnaeus, 1758); excluded with that species.

*nero* (Fabricius, 1798) *Panoquina*

Skinner (1902: 183, 1905: 29) recorded this species from Marco Island, Florida. Grossbeck (1917: 35) repeated this record. These apparently represent misidentifications of some other *Panoquina* species. Extralimital.

*nivella* (Mabille, 1883) *Heliopetes*

Listed by McDunnough (1938: 31) in error. Extralimital.

*nigrippus* (Haensch, 1909) *Danaus*

Listed by A. Clark and L. Clark (1938: 2). This is a South American subspecies of *Danaus plexippus* (Linnaeus, 1758).

*nomion* Fischer von Waldheim, 1823 *Parnassius*

Listed by Morris (1860: 3; 1862: 14-15), W. H. Edwards (1871: 14), citing Boisduval (1852: 282; 1869: 5). W. H. Edwards (1877: 12; 1884: 256) cited this taxon from "Alaska, Sitka, (coll. Behr)." These are all misidentifications or based on mislabeled specimens. Extralimital.

*norna* (Thunberg, 1791) *Oeneis*

Listed from "northern Alaska..." by W. H. Edwards (1886: 16), and subsequently figured by W. H. Edwards (1894: [347-348], pl. Chionobas 8, figs. 7, 8). These are misidentifications. Extralimital.

*nudeola* (M. Bates, 1934) *Dryas*

Listed by M. Bates (1934: 168-169). This is the subspecies of *Dryas iulia* (Fabricius, 1775) occurring on Cuba.

*ochsenheimeri* Staudinger, 1886 *Pieris*

Skinner (1897: 156) recorded this taxon from "Mt. Wrangel, Alaska" (also see Skinner 1898: 63). These are misidentifications. Extralimital.

*omaha* (W. H. Edwards, 1863) *Potanthus*

Listed by W. H. Edwards (1877: 49; 1884: 308), Strecker (1878: 175), Skinner (1898: 79) and Dyar (1903: 48). W. Holland (1898: 57-58) detailed the error in labeling. This is a Palearctic taxon.

*orbitulus* (de Prunner, 1798) *Albulina*

Listed by Strecker (1874: 86, pl. 10, figs. 15, 16; 1878: 99-100), and Scudder (1876: 121). This was part of the confusion that existed between *Albulina orbitulus* (de Prunner, 1798) and *Plebejus glandon* (de Prunner, 1798). Listed by W. H. Edwards (1877: 46; 1884: 304) in the synonymy of *Plebejus podarce* (C. Felder & R. Felder, 1865) in error. All references to this taxon as North American are misidentifications. Extralimital.

*orcus* (Stoll, 1780) *Pyrgus*

Listed by Morris (1860: 14) in error. An extralimital species; see Austin and A. Warren (2001: 3).

*orphise* (Cramer, 1775) *Eunica*

Mentioned as a misidentification by Strecker (1878: 140). This is a South American species.

*orseis* (Godart, 1819) *Ascia*

Listed by Morris (1860: 3; 1862: 16-17), Weidemeyer (1863: 151) and Strecker (1878: 76). This is an extralimital subspecies of *Ascia monuste* (Linnaeus, 1764).

*orsua* Godman & Salvin, 1889) *Battus*

Listed as a synonym of *Papilio acauda* by Skinner (1898: 74). This is an extralimital subspecies of *Battus philenor* (Linnaeus, 1771).

"*orythia*" *orithya* (Linnaeus, 1758) *Junonia*

Listed by Morris (1860: 8; 1862: 61) and Weidemeyer (1864: 519), in reference to Smith and Abbot (1797: pl. 8). This is a misidentification, later accepted by W. H. Edwards (1877: 30; 1884: 283), Scudder (1875: 255), Strecker (1878: 139) and Skinner (1898: 26), where this name was listed in the synonymy of *Junonia coenia* Hübner, [1822]. Extralimital.

*ossianus* (Herbst, 1800) *Boloria*

Listed by Morris (1860: 7; 1862: 48), W. H. Edwards (1884: 272), Strecker (1878: 115) and Skinner (1898: 9). This is a Palearctic subspecies of *Boloria eunomia* (Esper, 1800).

"*ostita*" *ostrea* (Doubleday, 1851) *Mycalasis*

Listed by Morris (1862: 351) and Weidemeyer (1864: 528), citing Hübner's ([1818]: figs. 79, 80) stated locality "Georgia." Extralimital.



*oviedo* Gundlach, 1866 *Papilio*

Previously listed as the subspecies of *Papilio thoas* Linnaeus, 1771, occurring in Florida (e.g., L. Miller and F. Brown, 1981: 64). There are no authenticated records from our area of this Cuban taxon.

*Pachyrhopala* Wallengren, 1858

This is a synonym of *Pyrrhopyge* Hübner, [1819]; extralimital. See Mielke (2002: 217-228).

*pales* (C. Felder & R. Felder, 1862) *Lycorea*

Listed by Dyar (1903: 33). Misidentified; this is a South American subspecies of *Lycorea halia* (Hübner, 1816).

*pales* ([Schiffermüller], 1775) *Boloria*

Widely employed for *Boloria alaskensis* (Holland, 1900) in error. Extralimital.

*palica* (Mabille, 1888) *Chiomara*

This is a synonym of *Chiomara asychis* (Cramer, 1780), an extralimital taxon (see Excluded Species list).

*pallida* Röber, 1925 *Polygonus*

Previously listed as a synonym or subspecies of *Polygonus leo* (Gmelin, [1790]), this is an extralimital taxon; Lamas (2001: 46).

*pamphiloides* Reakirt, 1866 *Coenonympha*

Described from "California." Determined by Skinner (1897: 156; 1900: 146) to have been described from mislabeled material. Extralimital.

*pamphilus* (Linnaeus, 1758) *Coenonympha*

Listed by Strecker (1878: 160) and Skinner (1898: 34). These are misidentifications. Extralimital.

*pan* (Drury, 1773) *Electrostrymon*

Listed by Harris (1833: 590) from "Massachusetts" in error. This is an extralimital species.

*pastor* (Butler & Druce, 1872) *Cyanophrys*

Recorded by Barnes and McDunnough (1913: 183), but misidentified. It is a synonym of *Cyanophrys longula* (Hewitson, 1874). Extralimital.

*pelagica* (Weeks, 1891) *Chiomara*

Evans (1953: 198) considered this a synonym of *Chiomara asychis georgina* (Reakirt, 1868), but it is currently considered to be the Baja Californian subspecies of *C. georgina* (A. Warren 2000: 254; 2002).

*peleus* (Sulzer, 1776) *Marpesia*

Previously listed as a synonym of *Marpesia petreus petreus* (Cramer, 1776) (e.g., L. Miller and F. Brown, 1981: 185). This is now considered a synonym of *Marpesia petreus damicorum* Brevignon, 2001; see Lamas *et al.* (2004: 235).

*pellenis* (Godart, [1824]) *Marpesia*

Listed by Scudder (1875: 257). Misidentified. This is an Antillean subspecies of *Marpesia eleucha* Hübner, 1818.

*peregrina* Röber, 1909 *Glutophrissa*

This is a synonym of *Appias drusilla poeyi* Butler, 1872, an extralimital taxon.

*perimede* (Prittwitz, 1865) *Pyrisitia*

Listed by Klotz (1928: 140) and Stallings and Turner (1946: 45). A misidentification of *Pyrisitia nise nelphe* (R. Felder, 1869). This name is a synonym of *Pyrisitia nise tenella* (Boisduval, 1836), an extralimital taxon.

*peritula* (C. Felder & R. Felder, 1861) *Chlosyne*

Listed by Skinner (1905: 9). A misidentification. This is a South American subspecies of *Chlosyne theona* (Ménétriés, 1855).

*peruensis* (Dufrane, 1939) *Strymon*

Listed by L. Miller and F. Brown (1981: 112). This is a synonym or subspecies of *Strymon bubastus* (Stoll, 1780). Extralimital.

*peruvianus* (Mabille & Boulet, 1917) *Eantis*

Previously considered a synonym of *Eantis thraso* (Hübner, [1807]); extralimital.

"phareus" (Panzer, 1785) *Hylephila*

Occasionally listed from our area (e.g., L. Miller and F. Brown, 1981: 33) as a synonym of *Hylephila phyleus* (Drury, 1773). Panzer erroneously applied this name to an illustration of *Hylephila phyleus* (Drury, 1773). A misidentification.

*phicomene* (Esper, [1780]) *Colias*

Misidentified by Fitch (1854: 378) for *C. philodice philodice* Godart, 1819. Listed by Morris (1860: 5; 1862: 30), referring to Boisduval (1836: 649). Weidemeyer (1863: 542) claimed this to be a synonym of *Colias nastes*. These are all misidentifications of an extralimital

taxon.

*philomela* (Linnaeus, 1763) *Ypthima*

Listed by Morris (1860: 10) and Weidemeyer (1864: 528), based on Hübner ([1800]: fig. 83), where it was listed as coming from "Georgien in Florida". Extralimital.

*philomene* (Hübner, [1803]) *Colias*

Listed as a synonym of *Colias palaeno* (Linnaeus, 1761) by Strecker (1878: 80) and Skinner (1898: 70). These are misidentifications of an extralimital taxon.

*phono* Geyer, 1837 *Hymenitis*

Listed by Scudder (1875: 246). W. H. Edwards (1877: 60; 1884: 323) excluded it for want of authentication. This taxon is currently considered a synonym of *Hymenitis drymo* Hübner, 1816, an extralimital taxon.

*platowii* (Plötz, 1880) *Urbanus*

Previously considered a synonym of *Urbanus esmeraldus* (Butler, 1877), but removed to *Aguna* (probably) by Steinhauser (1981: 24).

*plinius* (Fabricius, 1793) *Leptotes*

Listed by Scudder (1876: 124) as a synonym of *Leptotes cassius theonus* (Lucas, 1857). A misidentification. Extralimital.

*poeyi* Butler, 1872 *Glutophrissa*

Widely misdetermined as the subspecies of *Glutophrissa drusilla* (Cramer, 1779) occurring in the southeastern United States. It is the Cuban subspecies.

*polaris* Courvoisier, 1911 *Lycæna*

Listed by Scott (1986: 387) as a senior name for *Lycæna phlaeas feildeni* (M'Lachlan, 1878); a misidentification. Extralimital.

*polychloros* (Linnaeus, 1758) *Nymphalis*

Listed by Strecker (1878: 132) as a senior synonym of *Nymphalis vaualbum* ([Schiffermüller], 1775) in error. Extralimital.

*ponteni* Wallengren, 1860 *Colias*

Originally described from "Honolulu in Ins. Oahu," but this is undoubtedly a labeling error. Extralimital.

*portia* (Fabricius, 1775) *Anaea*

Listed by Weidemeyer (1864: 524), Scudder (1875: 248), Skinner (1898: 31) and Schaus (1898: 96). These are misidentifications. This is the Jamaican subspecies of *Anaea troglodyta* (Fabricius, 1775). See Calhoun (1997: 50).

*procerus* (Plötz, 1880) *Cephris*

Recorded in error from Texas, later corrected to *Polythrix octomaculata* by Freeman (1967: 278); *procerus* is now placed in *Cephris* Evans, 1952. See Austin and Mielke (2000). Extralimital.

*proclea* (Doubleday, [1847]) *Antillea*

Listed by Morris (1860: 8), citing Doubleday's erroneous reference to "Rocky Mtns." given on plate 23. An error. This is a Caribbean taxon.

*Protesilaus* Swainson, 1832

This genus is excluded from the list based on the re-arrangement of genus-group taxa in the Leptocircini.

*Protographium* Munroe, 1961

Tyler *et al.* (1994: 30) considered this the proper genus for the "marcellus group" of swallowtails, but this was rebutted by de Jong (2003: 147-148).

*Psaliapteris* Hübner, [1823]

This is a synonym of *Euselasia* Hübner [1819]. Extralimital.

*Pseuderchia* W. F. Kirby, 1892

Listed as a synonym of *Melanis* Hübner, [1819] by L. Miller and F. Brown (1981: 130). It is now considered a synonym of *Setabis* Westwood, 1851, an extralimital taxon.

*pygmaea* (Godart, 1819) *Antillea*

Listed by Weidemeyer (1864: 516) in error, as a result of the erroneous type-locality of "Amérique." Extralimital.

*Pyrrhopyge* Hübner, [1819]

Mielke (2002: 217-228) determined that this is an extralimital taxon when he reinstated *Apyrrothrix* Lindsey, 1921.

*raza* Klotz, 1930 *Ascia*

Various listed from our area (*e.g.*, Holland, 1931: pl. 67, fig. 18). L. Miller and F. Brown (1981: note # 262) determined that this is the Baja Californian subspecies of *Ascia monuste* (Linnaeus, 1764).

"richardsonii" ? "*Thecla*" authorship unknown

Listed by Weidemeyer (1864: 535) from "British N. A." citing "Bdv. A. S. E. F." [1852, Annales de la Société entomologique de France]. It is not known what species was implied.

*uricola* Boisduval, 1852 *Hesperia*

A *nomen dubium* not currently in the catalogue. Attempts have been made to apply it to *Euphyes vestris* (e.g., Holland, 1931: 389; L. Miller and F. Brown, 1981: 46, note 153), but Evans (1955: 320) considered that this is the senior synonym of *Hesperia lindseyi* (Holland, 1930). It is impossible to tell what species this name applies to.

*rutilans* Boisduval, 1836 *Colias*

Listed by Morris (1862: 351), Weidemeyer (1863: 153). These are misidentifications. W. H. Edwards (1877: 60) excluded this name for want of authentication. Extralimital.

*sadatus* Lucas, 1952 *Papilio*

Listed as a synonym of *Papilio americanus* by Skinner (1898: 75) and W. H. Edwards (1884: 253); this is a South American subspecies of *Papilio polyxenes* Fabricius, 1774.

*salona* (Hewitson, 1868) *Strymon*

Listed by Skinner (1898: 48) and McDunnough (1938: 24) in the synonymy of *Strymon columella* (Fabricius, 1793). It is now considered a synonym of *Strymon bubastus* (Stoll, 1780), an extralimital taxon.

*saturata* Staudinger, [1885] *Anartia*

Occasionally listed for *Anartia jatrophae luteipicta* Fruhstorfer, 1907. Extralimital.

*saundersii* (Doubleday, [1847]) *Chlosyne*

Listed by Weidemeyer (1864: 518), W. H. Edwards (1871: 18) and Strecker (1878: 126). A misidentification. This is a South American subspecies of *Chlosyne lacinia* (Geyer, 1837).

*schausi* (Avinoff, 1926) *Aphrissa*

Previously listed in the synonymy of *Aphrissa statira* (Cramer, 1777) (e.g., L. Miller and F. Brown, 1981: 87). This is currently considered an extralimital species-level taxon.

*schausii* (Riley, 1926) *Synapte*

This is a synonym of *Synapte malitiosa* (Herrich-Schäffer, 1865), an extralimital taxon (see Excluded Species list).

*scintillans* (Mabille, [1877]) *Sostrata*

This is a synonym of *Sostrata bifasciata* (Ménétriés, 1829), an extralimital taxon.

*sedakovii* [Ménétriés], [1850] *Parnassius*

This name has been cited from our area (e.g., L. Miller and F. Brown, 1981: 57) in error. It is a Palearctic taxon.

*sessilis* Schaus, 1890 *Lasaia*

Listed by Stallings and Turner (1946: 48). Misidentified for *Lasaia sula peninsularis* Clench, 1972, not yet described. Extralimital.

*silenus* (Cramer, 1780) *Panthiades*

Listed by Weidemeyer (1864: 535) in reference to Boisduval and Le Conte ([1830]: pl. 30) and Geyer (fig. 11), with *Satyrion favonius* (J. E. Smith, 1797) as a synonym. Scudder (1876: 107), Skinner (1898: 45) and Strecker (1878: 86) listed it as a synonym of *Strymon melinus* Hübner, 1818. This name may or may not pertain to Cramer. Considered extralimital.

*stabilis* Rothschild & Jordan, 1906 *Papilio*

Listed by Brown ([1943]: 291) from Arizona, and subsequently by dos Passos (1964: 34). These are misidentifications; extralimital.

"streckeri" Holland, 1927 *Papilio*

W. Holland cited this name in reference to Strecker (1873: pl. 6, fig. 4 ♀). This represents *Papilio polyxenes stabilis* Rothschild and Jordan, 1906, an extralimital taxon.

*streckeri* Skinner, 1889 *Myscelia*

Previously listed for our area by L. Miller and F. Brown (1981: 181). This is an extralimital subspecies of *Myscelia cyananthe* (C. Felder & R. Felder, 1867).

*suasa* (Boisduval, 1836) *Ascia*

Widely employed as a synonym of *Ascia monuste monuste* (Linnaeus, 1764) (e.g., L. Miller and F. Brown, 1981: 73). It is a South American subspecies of *Ascia monuste*.

*subconcolor* Röber, 1913 *Phyciodes*

Described from "Benson, Arizona" presumably based on mislabeled specimens. This is currently considered a subspecies of *Anthanasia nebulosa* Godman & Salvin, 1878, an extralimital taxon.



*"sulalia"* *Historis* authorship unknown

Listed as a synonym of *Historis acheronta cadmus* (Cramer, 1775) by Weidemeyer (1864: 523). It is not known what species is referred to.

*sylvanus* (Esper, [1779]) *Ochlodes*

Listed by Morris (1860: 14; 1862: 107), Weidemeyer (1864: 540), W. H. Edwards (1877: 50; 1884: 323), and Strecker (1878: 166), all in reference to Boisduval (1852: 313). W. H. Edwards (1884: 323) excluded it from our fauna for want of authentication. W. Holland (1931: 377) recorded a specimen of this Palearctic species that was either misidentified, mislabeled, or an import.

*Tachyris* Wallace, 1867

A synonym of *Appias* Hübner, [1819]; excluded with that name.

*Tamyris* Swainson, 1821

This is a synonym of *Pyrrhopyge* Hübner, [1819]; extralimital. See Mielke (2002: 217-228).

*tarpeia* (Pallas, 1771) *Oeneis*

Listed by Scudder (1875: 239), and W. H. Edwards (1877: 36; 1884: 292), citing Butler (1868: 161). Also listed by Strecker (1878: 155-156). These are all misidentifications. Extralimital.

*tartarus* (Hübner [1813]) *Pyrgus*

Listed in the synonymy of *syrichtus* (Fabricius, 1775), a synonym of *Pyrgus oileus* (Linnaeus, 1767), by Strecker (1878: 176). It is actually a synonym of *P. orcus* (Stoll, 1780), an extralimital taxon.

*tejua* Reakirt, 1866 *Catochrysops*

Described from "California" in error. Listed by Strecker (1874: 82, pl. 10; 1878: 91). Scudder (1876: 113) suggested that this species is *Papilio idmon* Hübner, [1804]. Strecker (1900: 20) determined that *tejua* is a synonym of *Hesperia strabo* Fabricius, 1793, from the East Indies. Currently considered to be a synonym of *Catochrysops strabo* (Fabricius, 1793), an extralimital taxon.

*telala* (Herrich-Schäffer, 1869) *Monca*

Long considered the senior synonym of *Monca tyrtaeus* (Plötz, 1882) (a junior synonym of *Monca crispinus* (Plötz, 1882)), but Bell (1941: 183-185) and Austin *et al.* (1996: 25) demonstrated that they are distinct. Extralimital.

*temenes* Godart, 1819 *Papilio*

Listed by Skinner (1898: 78), prior to the description of *Papilio aristodemus ponceanus* Schaus, 1911. Misidentified; extralimital.

*thebais* Godman & Salvin, 1878 *Phyciodes*

Previously listed for our fauna (*e.g.*, dos Passos 1964: 82, L. Miller and F. Brown, 1981: 163). This is an extralimital Mexican subspecies of *Phyciodes mylitta* (W. H. Edwards, 1861).

*theogenis* (Capronnier, 1874) *Cymaenes*

This is an extralimital subspecies of *Cymaenes tripunctus* (Herrich-Schäffer, 1865), listed by Evans (1955) from "Idaho, Colorado"; presumably based on mislabeled specimens.

*thetys* (Fabricius, 1777) *Marpesia*

Previously listed as a synonym of *Marpesia petreus petreus* (Cramer, 1776) (*e.g.*, L. Miller and F. Brown, 1981: 185). This is now a synonym of *Marpesia petreus damicorum* Brevignon, 2001 (Lamas *et al.* (2004: 235).

*Trigonia* Geyer, 1837

A synonym of *Appias* Hübner, [1819]; excluded with that name.

*tyndarellus* (Herbst, 1796) *Erebia*

Listed by Strecker (1878: 151) as a synonym of *Erebia tyndarus* (Esper, [1781]); excluded with that name.

*tyndarus* (Esper, [1781]) *Erebia*

Previously listed as a senior synonym of *Erebia callias* W. H. Edwards, 1871. This is an extralimital species.

*"ubaldus"* sensu (Godart, [1824]) *Hemiargus*

Listed by Morris (1860: 12; 1862: 82), citing Godart ([1824]: 689), as a synonym of *Hemiargus filenus* (Poey, 1832). This is a misidentification, both of *ubaldus* and of *filenus*. Extralimital.

*ulha* (Hewitson, [1868]) *Pyrrhocalles*

A synonym of *Pyrrhocalles antiqua* (Herrich-Schäffer, 1863); excluded with that species.

*vautierii* (Guérin-Méneville, [1830]) *Colias*

Listed by Weidemeyer (1863: 153) as a synonym of *Colias rutilans* Boisduval, 1836. This is a misidentification of an extralimital taxon.

*velinus* (Plötz, 1881) *Urbanus*

Previously listed in the synonymy of *Urbanus dorantes dorantes* (Stoll, 1790), but determined to be a senior synonym of the extralimital

*Urbanus acawoios* Hayward, 1940, by Robbins *et al.* (1996).

*vesagus* (Doubleday, [1849]) *Homeonympha*

Described from "Rocky Mountains" in error. Listed by Morris (1860: 10), Weidemeyer (1864: 527), Scudder (1875: 243), W. H. Edwards (1877: 34; 1884: 289) and Strecker (1878: 151). Strecker (1892: 256) determined that this is an extralimital taxon.

*viluensis* (Ménétriés, 1859) *Coenonympha*

Listed for North America by Guppy and Shepard (2001: 321). Herein considered extralimital.

*vox* Evans, 1953 *Gorgythion*

Various recorded from Texas (*e.g.*, Neck, 1996: 208). All reports from our area are misidentifications of *Gorgythion begga pyralina* (Möschler, 1877). No authentic specimens have been examined. Extralimital.

*vulcanides* Röber, 1925 *Phocides*

Listed by L. Miller and F. Brown (1981: 2) as a synonym of *Phocides pigmalion* (Cramer, 1779). This was determined to be a distinct extralimital species by Mielke (1989: 134).

*wenona* dos Passos & Grey, 1964 *Speyeria*

Listed by dos Passos (1964: 92) and Howe (1975). This is a Mexican subspecies of *Speyeria nokomis* (W. H. Edwards, 1862). Extralimital.

"*werdandi* Herrich-Schäffer, 1848" *Colias*

Listed by Skinner (1898: 70; 1905: 24) and Dyar (1903). The name as used by Herrich-Schäffer is a misidentification for *Colias werdandi* Zetterstedt, 1840, and so are the listings for North America. Extralimital.

*willi* (Plötz, 1884) *Heliopetes*

Listed in the synonymy of *Heliopetes domicella* (Erichson, [1849]) by dos Passos (1964: 18) in error. This is an extralimital subspecies of *Heliopyrgus domicella*.

*wosnesenskii* [Ménétriés], [1850] *Parnassius*

Listed by Strecker (1878: 73), W. H. Edwards (1884: 256) and Skinner (1898: 73). An extralimital taxon recorded in error.

*xanthe* (Sepp, [1847]) *Phoebis*

Listed by Skinner (1898: 66) as a synonym of *Phoebis argante* (Fabricius, 1775). This is currently considered a synonym of the extralimital *Phoebis argante larra* (Fabricius, 1798); see Lamas (2004d: 104).

*Yanguna* E. Y. Watson, 1893

This extralimital taxon was formerly considered a synonym of *Pyrrhopyge* Hübner, [1819]; see Mielke (2002: 217-228).

*zabulina* (Godart, 1819) *Hypanartia*

Listed by Weidemeyer (1864: 518) as a synonym of *Hypanartia lethe* (Fabricius, 1793); a misidentification. This is a synonym of *Hypanartia bella* (Fabricius, 1793), an extralimital taxon.

*zangis* (Fabricius, 1775) *Calisto*

Listed by Morris (1860: 11; 1862: 81) and Weidemeyer (1864: 528), following the (erroneous) "Carolina" locality noted in the original description. This taxon is extralimital.

*zephodes* (Hübner, [1825]) *Ephyriades*

Listed by McDunnough (1938). It is undoubtedly an accidental import; see Skinner (1911: 208). Extralimital.

## APPENDIX 3

**CHECKLIST  
OF THE BUTTERFLIES  
OF THE  
UNITED STATES AND CANADA**

† = taxon extirpated from checklist region.

Superfamily **HESPERIOIDEA** Latreille, 1809

Family **HESPERIIDAE** Latreille, 1809

Subfamily **Eudaminae** Mabille, 1877

**PHOCIDES** Hübner, [1819]

1. **Phocides pigmalion** (Cramer, 1779)
  - a. **Phocides pigmalion okeechobee** (Worthington, 1881)
2. **Phocides belus** Godman & Salvin, 1890
3. **Phocides polybius** (Fabricius, 1793)
  - a. **Phocides polybius lilea** (Reakirt, [1867])

**PROTEIDES** Hübner, [1819]

4. **Proteides mercurius** (Fabricius, 1787)
  - a. **Proteides mercurius mercurius** (Fabricius, 1787)
  - b. **Proteides mercurius sanantonio** (Lucas, 1857)

**EPARGYREUS** Hübner, [1819]

5. **Epargyreus zestos** (Geyer, 1832)
  - a. **Epargyreus zestos zestos** (Geyer, 1832)
6. **Epargyreus clarus** (Cramer, 1775)
  - a. **Epargyreus clarus clarus** (Cramer, 1775)
  - b. **Epargyreus clarus huachuca** Dixon, 1955
  - c. **Epargyreus clarus profugus** Austin, 1998
  - d. **Epargyreus clarus californicus** MacNeill, 1975
7. **Epargyreus exadeus** (Cramer, 1779)
  - a. **Epargyreus exadeus cruzi** Evans, 1952

**POLYGONUS** Hübner, [1825]

8. **Polygonus leo** (Gmelin, [1790])
  - a. **Polygonus leo arizonensis** (Skinner, 1911)
  - b. **Polygonus leo histrio** Röber, 1925
9. **Polygonus savigny** (Latreille, [1824])
  - a. **Polygonus savigny savigny** (Latreille, [1824])

**CHIOIDES** Lindsey, 1921

10. **Chioides albofasciatus** (Hewitson, 1867)
11. **Chioides zilpa** (Butler, 1872)

**TYPHEDANUS** Butler, 1870

12. **Typhedanus undulatus** (Hewitson, 1867)

**POLYTHRIX** E. Watson, 1893

13. **Polythrix mexicanus** H. Freeman, 1969
14. **Polythrix octomaculata** (Sepp, [1844])

**AGUNA** R. Williams, 1927

15. **Aguna asander** (Hewitson, 1867)
  - a. **Aguna asander asander** (Hewitson, 1867)
16. **Aguna metophis** (Latreille, [1824])
17. **Aguna claxon** Evans, 1952



**ZESTUSA** Lindsey, 1925

18. *Zestusa dorus* (W. H. Edwards, 1882)

**CODATRACTUS** Lindsey, 1921

19. *Codatractus alcaeus* (Hewitson, 1867)  
 a. *Codatractus alcaeus alcaeus* (Hewitson, 1867)  
 20. *Codatractus arizonensis* (Skinner, 1905)  
 21. *Codatractus valeriana* (Plötz, 1881)

**URBANUS** Hübner, [1807]

22. *Urbanus proteus* (Linnaeus, 1758)  
 a. *Urbanus proteus proteus* (Linnaeus, 1758)  
 23. *Urbanus belli* (Hayward, 1935)  
 24. *Urbanus pronus* Evans, 1952  
 25. *Urbanus esmeraldus* (Butler, 1877)  
 26. *Urbanus dorantes* (Stoll, 1790)  
 a. *Urbanus dorantes dorantes* (Stoll, 1790)  
 27. *Urbanus teleus* (Hübner, 1821)  
 28. *Urbanus tanna* Evans, 1952  
 29. *Urbanus simplicius* (Stoll, 1790)  
 30. *Urbanus procne* (Plötz, 1881)  
 31. *Urbanus doryssus* (Swainson, 1831)  
 a. *Urbanus doryssus doryssus* (Swainson, 1831)

**ASTRAPTES** Hübner, [1819]

32. *Astraptes fulgerator* (Walch, 1775)  
 a. *Astraptes fulgerator azul* (Reakirt, [1867])  
 33. *Astraptes egregius* (Butler, 1870)  
 a. *Astraptes egregius egregius* (Butler, 1870)  
 34. *Astraptes alardus* (Stoll, 1790)  
 a. *Astraptes alardus latia* Evans, 1952  
 35. *Astraptes alector* (C. Felder & R. Felder, 1867)  
 a. *Astraptes alector hopfferi* (Plötz, 1881)  
 36. *Astraptes anaphus* (Cramer, 1777)  
 a. *Astraptes anaphus annetta* Evans, 1952

**AUTOCHTON** Hübner, 1823

37. *Autochton cellus* (Boisduval & Le Conte, [1837])  
 38. *Autochton pseudocellus* (Coolidge & Clemence, [1910]) †  
 39. *Autochton cincta* (Plötz, 1882)

**ACHALARUS** Scudder, 1872

40. *Achalarus lyciades* (Geyer, 1832)  
 41. *Achalarus casica* (Herrich-Schäffer, 1869)  
 42. *Achalarus albociliatus* (Mabille, 1877)  
 a. *Achalarus albociliatus albociliatus* (Mabille, 1877)  
 43. *Achalarus toxus* (Plötz, 1882)

**THESSIA** Steinhauser, 1989

44. *Thessia jalapus* (Plötz, 1881)

**THORYBES** Scudder, 1872

45. *Thorybes drusius* (W. H. Edwards, [1884])  
 46. *Thorybes bathyllus* (J. E. Smith, 1797)  
 47. *Thorybes pylades* (Scudder, 1870)  
 a. *Thorybes pylades pylades* (Scudder, 1870)  
 b. *Thorybes pylades indistinctus* Austin & J. Emmel, 1998  
 c. *Thorybes pylades albosuffusa* H. Freeman, 1943  
 48. *Thorybes confusus* E. Bell, 1923  
 49. *Thorybes diversus* E. Bell, 1927  
 50. *Thorybes mexicana* (Herrich-Schäffer, 1869)  
 a. *Thorybes mexicana aemilea* (Skinner, 1893)  
 b. *Thorybes mexicana nevada* Scudder, 1872  
 c. *Thorybes mexicana blanca* Scott, 1981  
 d. *Thorybes mexicana dobra* Evans, 1952

**CABARES** Godman & Salvin, 1894

51. **Cabares potrillo** (Lucas, 1857)  
 a. **Cabares potrillo potrillo** (Lucas, 1857)

**SPATHILEPIA** Butler, 1870

52. **Spathilepia clonius** (Cramer, 1775)

**COGIA** Butler, 1870

53. **Cogia hippalus** (W. H. Edwards, 1882)  
 a. **Cogia hippalus hippalus** (W. H. Edwards, 1882)  
 54. **Cogia outis** (Skinner, 1894)  
 55. **Cogia caicus** (Herrich-Schäffer, 1869)  
 a. **Cogia caicus moschus** (W. H. Edwards, 1882)  
 56. **Cogia calchas** (Herrich-Schäffer, 1869)

Subfamily **Pyrginae** Burmeister, 1878 (1877)

Tribe **Pyrrhopygini** Mabille, 1877

Subtribe **Pyrrhopygina** Mabille, 1877

**APYRROTHRIX** Lindsey, 1921

57. **Apyrrothrix araxes** (Hewitson, 1867)  
 a. **Apyrrothrix araxes arizonae** (Godman & Salvin, 1893)

Tribe **Celaenorrhinini** Swinhoe, 1912

**CELAENORRINUS** Hübner, [1819]

58. **Celaenorrhinus fritzgaertneri** (Bailey, 1880)  
 59. **Celaenorrhinus stallingsi** H. Freeman, 1946

Tribe **Carcharodini** Verity, 1940

**ARTEUROTIA** Butler & H. Druce, 1872

60. **Arteurotia tractipennis** Butler & H. Druce, 1872  
 a. **Arteurotia tractipennis tractipennis** Butler & H. Druce, 1872

**NISONIADES** Hübner, [1819]

61. **Nisoniades rubescens** (Möschler, 1877)

**PELLICIA** Herrich-Schäffer, 1870

62. **Pellicia arina** Evans, 1953  
 63. **Pellicia dimidiata** Herrich-Schäffer, 1870  
 a. **Pellicia dimidiata dimidiata** Herrich-Schäffer, 1870

**WINDIA** H. Freeman, 1969

64. **Windia windi** H. Freeman, 1969

**NOCTUANA** E. Bell, 1937

65. **Noctuana stator** (Godman & Salvin, 1899)

**BOLLA** Mabille, 1903

66. **Bolla brennus** (Godman & Salvin, 1896)  
 a. **Bolla brennus brennus** (Godman & Salvin, 1896)  
 67. **Bolla clytius** (Godman & Salvin, 1897)

**STAPHYLUS** Godman & Salvin, 1896

68. **Staphylus ceos** (W. H. Edwards, 1882)  
 69. **Staphylus mazans** (Reakirt, [1867])  
 70. **Staphylus hayhurstii** (W. H. Edwards, 1870)

**PHOLISORA** Scudder, 1872

71. **Pholisora catullus** (Fabricius, 1793)  
 72. **Pholisora mejicanus** (Reakirt, [1867])

**HESPEROPSIS** Dyar, 1905

73. **Hesperopsis libya** (Scudder, 1878)  
 a. **Hesperopsis libya joaquina** J. Emmel, T. Emmel & Mattoon, 1998

- b. *Hesperopsis libya libya* (Scudder, 1878)
- c. *Hesperopsis libya confertiblanca* Scott, 1992
- d. *Hesperopsis libya lena* (W. H. Edwards, 1882)
- 74. *Hesperopsis alpheus* (W. H. Edwards, 1876)
  - a. *Hesperopsis alpheus oricus* (W. H. Edwards, 1879)
  - b. *Hesperopsis alpheus alpheus* (W. H. Edwards, 1876)
  - c. *Hesperopsis alpheus texana* Scott, 1981
- 75. *Hesperopsis graciellae* (MacNeill, 1970)

Tribe **Erynnini** Brues & F. Carpenter, 1932

**GORGYTHION** Godman & Salvin, 1896

- 76. *Gorgythion begga* (Prittwitz, 1868)
  - a. *Gorgythion begga pyralina* (Möschler, 1877)

**SOSTRATA** Godman & Salvin, 1895

- 77. *Sostrata nordica* Evans, 1953

**MYLON** Godman & Salvin, 1894

- 78. *Mylon pelopidas* (Fabricius, 1793)

**GRAIS** Godman & Salvin, 1894

- 79. *Grais stigmaticus* (Mabille, 1883)
  - a. *Grais stigmaticus stigmaticus* (Mabille, 1883)

**TIMOCHARES** Godman & Salvin, 1896

- 80. *Timochares ruptifasciata* (Plötz, 1884)

**ANASTRUS** Hübner, [1824]

- 81. *Anastrus sempiternus* (Butler & H. Druce, 1872)
  - a. *Anastrus sempiternus sempiternus* (Butler & H. Druce, 1872)

**CHIOMARA** Godman & Salvin, 1899

- 82. *Chiomara georgina* (Reakirt, 1868)
  - a. *Chiomara georgina georgina* (Reakirt, 1868)
- 83. *Chiomara mithrax* (Möschler, 1879)

**GESTA** Evans, 1953

- 84. *Gesta invisus* (Butler & H. Druce, 1872)

**EPHYRIADES** Hübner, [1819]

- 85. *Ephyriades brunnea* (Herrich-Schäffer, 1865)
  - a. *Ephyriades brunnea floridensis* E. Bell & W. Comstock, 1948

**ERYNNIS** Schrank, 1801

- 86. *Erynnis icelus* (Scudder & Burgess, 1870)
- 87. *Erynnis brizo* (Boisduval & Le Conte, [1837])
  - a. *Erynnis brizo somnus* (Lintner, 1881)
  - b. *Erynnis brizo brizo* (Boisduval & Le Conte, [1837])
  - c. *Erynnis brizo burgessi* (Skinner, 1914)
  - d. *Erynnis brizo lacustra* (W. G. Wright, 1905)
- 88. *Erynnis juvenalis* (Fabricius, 1793)
  - a. *Erynnis juvenalis juvenalis* (Fabricius, 1793)
  - b. *Erynnis juvenalis clitus* (W. H. Edwards, 1883)
- 89. *Erynnis telemachus* Burns, 1960
- 90. *Erynnis propertius* (Scudder & Burgess, 1870)
- 91. *Erynnis meridianus* E. Bell, 1927
  - a. *Erynnis meridianus meridianus* E. Bell, 1927
- 92. *Erynnis scudderi* (Skinner, 1914)
- 93. *Erynnis horatius* (Scudder & Burgess, 1870)
- 94. *Erynnis tristis* (Boisduval, 1852)
  - a. *Erynnis tristis tristis* (Boisduval, 1852)
  - b. *Erynnis tristis tatus* (W. H. Edwards, 1883)
- 95. *Erynnis martialis* (Scudder, [1870])
- 96. *Erynnis pacuvius* (Lintner, 1878)
  - a. *Erynnis pacuvius pacuvius* (Lintner, 1878)
  - b. *Erynnis pacuvius lilius* (Dyar, 1904)



- c. *Erynnis pacuvius pernigra* (F. Grinnell, 1905)
- d. *Erynnis pacuvius callidus* (F. Grinnell, 1904)
- 97. *Erynnis zarucco* (Lucas, 1857)
- 98. *Erynnis funeralis* (Scudder & Burgess, 1870)
- 99. *Erynnis baptisiae* (W. Forbes, 1936)
- 100. *Erynnis lucilius* (Scudder & Burgess, 1870)
- 101. *Erynnis afranius* (Lintner, 1878)
- 102. *Erynnis persius* (Scudder, 1863)
  - a. *Erynnis persius persius* (Scudder, 1863)
  - b. *Erynnis persius borealis* (M. Cary, 1906)
  - c. *Erynnis persius avinoffi* (W. Holland, 1930)
  - d. *Erynnis persius fredericki* H. Freeman, 1943

Tribe **Achlyodidini** Burmeister, 1878**ACHLYODES** Hübner, [1819]

- 103. *Achlyodes pallida* (R. Felder, 1869)

**EANTIS** Boisduval, 1836

- 104. *Eantis tamenund* (W. H. Edwards, 1871)

Tribe **Pyrgini** Burmeister, 1878**CARRHENES** Godman & Salvin, 1895

- 105. *Carrhenes canescens* (R. Felder, 1869)
  - a. *Carrhenes canescens canescens* (R. Felder, 1869)

**XENOPHANES** Godman & Salvin, 1895

- 106. *Xenophanes tryxus* (Cramer, 1780)

**ANTIGONUS** Hübner, [1819]

- 107. *Antigonus emorsa* (R. Felder, 1869)
- 108. *Antigonus erosus* (Hübner, [1812])

**SYSTASEA** W. H. Edwards, 1877

- 109. *Systasea pulverulenta* (R. Felder, 1869)
- 110. *Systasea zampa* (W. H. Edwards, 1876)

**CELOTES** Godman & Salvin, 1899

- 111. *Celotes nessus* (W. H. Edwards, 1877)
- 112. *Celotes limpia* Burns, 1974

**PYRGUS** Hübner, [1819]

- 113. *Pyrgus centaureae* (Rambur, [1842])
  - a. *Pyrgus centaureae wyandot* (W. H. Edwards, 1863)
  - b. *Pyrgus centaureae freija* (B. Warren, 1924)
  - c. *Pyrgus centaureae loki* Evans, 1953
- 114. *Pyrgus ruralis* (Boisduval, 1852)
  - a. *Pyrgus ruralis ruralis* (Boisduval, 1852)
  - b. *Pyrgus ruralis lagunae* Scott, 1981
- 115. *Pyrgus xanthus* W. H. Edwards, 1878
- 116. *Pyrgus scriptura* (Boisduval, 1852)
  - a. *Pyrgus scriptura scriptura* (Boisduval, 1852)
  - b. *Pyrgus scriptura apertorum* Austin, 1998
- 117. *Pyrgus communis* (Grote, 1872)
  - a. *Pyrgus communis communis* (Grote, 1872)
- 118. *Pyrgus albescens* Plötz, 1884
- 119. *Pyrgus philetas* W. H. Edwards, 1881
- 120. *Pyrgus oileus* (Linnaeus, 1767)

**HELIOPYRGUS** Herrera, 1957

- 121. *Heliopyrgus domicella* (Erichson, [1849])
  - a. *Heliopyrgus domicella domicella* (Erichson, [1849])
- 122. *Heliopyrgus sublinea* (Schaus, 1902)

**HELIOPETES** Billberg, 1820

- 123. *Heliopetes ericetorum* (Boisduval, 1852)

- 124. *Heliopetes macaira* (Reakirt, [1867])
  - a. *Heliopetes macaira macaira* (Reakirt, [1867])
- 125. *Heliopetes laviana* (Hewitson, 1868)
  - a. *Heliopetes laviana laviana* (Hewitson, 1868)
- 126. *Heliopetes arsalte* (Linnaeus, 1758)

Subfamily **Heteropterinae** Aurivillius, 1925 (1879)

**CARTEROCEPHALUS** Lederer, 1852

- 127. *Carterocephalus palaemon* (Pallas, 1771)
  - a. *Carterocephalus palaemon mesapano* (Scudder, 1868)
  - b. *Carterocephalus palaemon mandan* (W. H. Edwards, 1863)
  - c. *Carterocephalus palaemon skada* (W. H. Edwards, 1870)
  - d. *Carterocephalus palaemon magnus* Mattoon & Tilden, 1998

**PIRUNA** Evans, 1955

- 128. *Piruna pirus* (W. H. Edwards, 1878)
- 129. *Piruna haferniki* H. Freeman, 1970
- 130. *Piruna polingii* (W. Barnes, 1900)
- 131. *Piruna aea* (Dyar, 1912)
  - a. *Piruna aea mexicana* H. Freeman, 1979
- 132. *Piruna penaea* Dyar, 1918

Subfamily **Hesperinae** Latreille, 1809

Tribe **Megathymini** J. H. Comstock & A. Comstock, 1895

**AGATHYMUS** H. Freeman, 1959

- 133. *Agathymus neumoegei* (W. H. Edwards, 1882)
  - a. *Agathymus neumoegei neumoegei* (W. H. Edwards, 1882)
  - b. *Agathymus neumoegei judithae* (D. Stallings & Turner, 1957)
  - c. *Agathymus neumoegei diabloensis* H. Freeman, 1962
  - d. *Agathymus neumoegei carlsbadensis* (D. Stallings & Turner, 1957)
  - e. *Agathymus neumoegei florenceae* (D. Stallings & Turner, 1957)
  - f. *Agathymus neumoegei mcalpinei* (H. Freeman, 1955)
  - g. *Agathymus neumoegei chisosensis* (H. Freeman, 1952)
- 134. *Agathymus polingi* (Skinner, 1905)
- 135. *Agathymus evansi* (H. Freeman, 1950)
- 136. *Agathymus aryna* (Dyar, 1905)
- 137. *Agathymus baueri* (D. Stallings & Turner, 1954)
  - a. *Agathymus baueri baueri* (D. Stallings & Turner, 1954)
  - b. *Agathymus baueri freemani* D. Stallings & Turner, 1960
- 138. *Agathymus gentryi* Roever, 1998
- 139. *Agathymus mariae* (W. Barnes & Benjamin, 1924)
  - a. *Agathymus mariae mariae* (W. Barnes & Benjamin, 1924)
  - b. *Agathymus mariae chinatiensis* H. Freeman, 1964
  - c. *Agathymus mariae lajitaensis* H. Freeman, 1964
  - d. *Agathymus mariae rindgei* H. Freeman, 1964
- 140. *Agathymus gilberti* H. Freeman, 1964
- 141. *Agathymus estelleae* (D. Stallings & Turner, 1958)
  - a. *Agathymus estelleae valverdiensis* H. Freeman, 1966
- 142. *Agathymus stephensi* (Skinner, 1912)
- 143. *Agathymus alliae* (D. Stallings & Turner, 1957)
  - a. *Agathymus alliae alliae* (D. Stallings & Turner, 1957)
  - b. *Agathymus alliae paiute* Roever, 1998

**MEGATHYMUS** Scudder, 1872

- 144. *Megathymus yuccae* (Boisduval & Le Conte, [1837])
  - a. *Megathymus yuccae yuccae* (Boisduval & Le Conte, [1837])
  - b. *Megathymus yuccae reinthali* H. Freeman, 1963
  - c. *Megathymus yuccae wilsonorum* D. Stallings & Turner, 1958
  - d. *Megathymus yuccae louiseae* H. Freeman, 1963
  - e. *Megathymus yuccae coloradensis* C. Riley, 1878
  - f. *Megathymus yuccae reubeni* D. Stallings, Turner & V. Stallings, 1963
  - g. *Megathymus yuccae navajo* Skinner, 1911
  - h. *Megathymus yuccae martini* D. Stallings & Turner, 1956
  - i. *Megathymus yuccae harbisoni* J. Emmel & T. Emmel, 1998

145. *Megathymus ursus* Poling, 1902
  - a. *Megathymus ursus ursus* Poling, 1902
  - b. *Megathymus ursus deserti* R. Wielgus, J. Wielgus & D. Wielgus, 1972
  - c. *Megathymus ursus violae* D. Stallings & Turner, 1956
146. *Megathymus cofaqui* (Strecker, 1876)
  - a. *Megathymus cofaqui cofaqui* (Strecker, 1876)
  - b. *Megathymus cofaqui slotteni* Gatrell, 1999
147. *Megathymus streckeri* (Skinner, 1895)
  - a. *Megathymus streckeri streckeri* (Skinner, 1895)
  - b. *Megathymus streckeri texana* W. Barnes & McDunnough, 1912
  - c. *Megathymus streckeri leussleri* W. Holland, 1931

STALLINGSIA H. Freeman, 1959

148. *Stallingsia maculosus* (H. Freeman, 1955)

Tribe *incertae sedis*

ERIONOTA Mabil, 1878

149. *Erionota thrax* (Linnaeus, 1767)
  - a. *Erionota thrax thrax* (Linnaeus, 1767)

PERICHARES Scudder, 1872

150. *Perichares philetes* (Gmelin, [1790])
  - a. *Perichares philetes adela* (Hewitson, 1867)

Tribe *Thymelicini* Tutt, 1905

ANCYLOXYPHA C. Felder, [1863]

151. *Ancyloxypha numitor* (Fabricius, 1793)
152. *Ancyloxypha arene* (W. H. Edwards, 1871)

OARISMA Scudder, 1872

153. *Oarisma poweshiek* (Parker, 1870) (emended)
154. *Oarisma garita* (Reakirt, 1866)
  - a. *Oarisma garita garita* (Reakirt, 1866)
155. *Oarisma edwardsii* (W. Barnes, 1897)

COPAEODES Speyer, 1877

156. *Copaeodes aurantiaca* (Hewitson, 1868)
157. *Copaeodes minima* (W. H. Edwards, 1870)

ADOPAEOIDES Godman, 1900

158. *Adopaeoides prittwiti* (Plötz, 1884)

THYMELICUS Hübner, [1819]

159. *Thymelicus lineola* (Ochsenheimer, 1808)
  - a. *Thymelicus lineola lineola* (Ochsenheimer, 1808)

Tribe *Calpodini* A. Clark, 1948

CALPODES Hübner, [1819]

160. *Calpodes ethlius* (Stoll, 1782)

PANOQUINA Hemming, 1934

161. *Panoquina panoquin* (Scudder, 1863)
162. *Panoquina panoquinoides* (Skinner, 1891)
  - a. *Panoquina panoquinoides panoquinoides* (Skinner, 1891)
163. *Panoquina errans* (Skinner, 1892)
164. *Panoquina ocola* (W. H. Edwards, 1863)
  - a. *Panoquina ocola ocola* (W. H. Edwards, 1863)
165. *Panoquina lucas* (Fabricius, 1793)
166. *Panoquina hecebolus* (Scudder, 1872)
167. *Panoquina evansi* (H. Freeman, 1946)

New Tribe (being described by A. Warren, in prep.)

SYNAPTE Mabil, 1904



- 168. *Synapte pecta* Evans, 1955
- 169. *Synapte salenus* (Mabille, 1883)
- 170. *Synapte shiva* (Evans, 1955)

**CORTICEA** Evans, 1955

- 171. *Corticea corticea* (Plötz, 1882)

New Tribe (being described by A. Warren, in press)

**AMBLYSCHIRTES** Scudder, 1872

- 172. *Amblyscirtes exoteria* (Herrich-Schäffer, 1869)
- 173. *Amblyscirtes cassus* W. H. Edwards, 1883
- 174. *Amblyscirtes aenus* W. H. Edwards, 1878
  - a. *Amblyscirtes aenus erna* H. Freeman, 1943
  - b. *Amblyscirtes aenus aenus* W. H. Edwards, 1878
  - c. *Amblyscirtes aenus megamacula* Scott, 1998
- 175. *Amblyscirtes linda* H. Freeman, 1943
- 176. *Amblyscirtes osleri* (Skinner, 1899)
- 177. *Amblyscirtes elissa* Godman, 1900
  - a. *Amblyscirtes elissa arizonae* H. Freeman, 1993
- 178. *Amblyscirtes hegon* (Scudder, 1863)
- 179. *Amblyscirtes texanae* E. Bell, 1927
- 180. *Amblyscirtes carolina* (Skinner, 1892)
- 181. *Amblyscirtes reversa* F. Jones, 1926
- 182. *Amblyscirtes aesculapius* (Fabricius, 1793)
- 183. *Amblyscirtes nereus* (W. H. Edwards, 1876)
- 184. *Amblyscirtes nysa* W. H. Edwards, 1877
- 185. *Amblyscirtes eos* (W. H. Edwards, 1871)
- 186. *Amblyscirtes vialis* (W. H. Edwards, 1862)
- 187. *Amblyscirtes alternata* (Grote & Robinson, 1867)
- 188. *Amblyscirtes celia* Skinner, 1895
- 189. *Amblyscirtes belli* H. Freeman, 1941
- 190. *Amblyscirtes tolteca* Scudder, 1872
  - a. *Amblyscirtes tolteca prenda* Evans, 1955
- 191. *Amblyscirtes phylace* (W. H. Edwards, 1878)
- 192. *Amblyscirtes fimbriata* (Plötz, 1882)
  - a. *Amblyscirtes fimbriata fimbriata* (Plötz, 1882)

**VIDIUS** Evans, 1955

- 193. *Vidius perigenes* (Godman, 1900)

**MONCA** Evans, 1955

- 194. *Monca crispinus* (Plötz, 1882)

**NASTRA** Evans, 1955

- 195. *Nastra lherminier* (Latreille, [1824])
- 196. *Nastra neamathla* (Skinner & R. Williams, 1923)
- 197. *Nastra julia* (H. Freeman, 1945)

**CYMAENES** Scudder, 1872

- 198. *Cymaenes tripunctus* (Herrich-Schäffer, 1865)
  - a. *Cymaenes tripunctus tripunctus* (Herrich-Schäffer, 1865)
- 199. *Cymaenes trebius* (Mabille, 1891)

**LERODEA** Scudder, 1872

- 200. *Lerodea eufala* (W. H. Edwards, 1869)
  - a. *Lerodea eufala eufala* (W. H. Edwards, 1869)
- 201. *Lerodea arabus* (W. H. Edwards, 1882)

**LEREMA** Scudder, 1872

- 202. *Lerema accius* (J. E. Smith, 1797)
- 203. *Lerema liris* Evans, 1955

**VETTIUS** Godman, 1901

- 204. *Vettius fantasos* (Cramer, 1780)

**RHINTHON** Godman, 1900

205. *Rhinton osca* (Plötz, 1882)

Tribe *Hesperini* Latreille, 1809

**DECINEA** Evans, 1955

206. *Decinea percosius* (Godman, 1900)

**OLIGORIA** Scudder, 1872

207. *Oligoria maculata* (W. H. Edwards, 1865)

**CONGA** Evans, 1955

208. *Conga chydaea* (Butler, 1877)

**HYLEPHILA** Billberg, 1820

209. *Hylephila phyleus* (Drury, 1773)  
 a. *Hylephila phyleus phyleus* (Drury, 1773)

**PSEUDOCOPAEODES** Skinner & R. Williams, 1923

210. *Pseudocopaeodes eunus* (W. H. Edwards, 1881)  
 a. *Pseudocopaeodes eunus eunus* (W. H. Edwards, 1881)  
 b. *Pseudocopaeodes eunus alinea* Scott, 1981  
 c. *Pseudocopaeodes eunus flavus* Austin & J. Emmel, 1998  
 d. *Pseudocopaeodes eunus obscurus* Austin & J. Emmel, 1998

**HESPERIA** Fabricius, 1793

211. *Hesperia uncas* W. H. Edwards, 1863  
 a. *Hesperia uncas uncas* W. H. Edwards, 1863  
 b. *Hesperia uncas lasus* (W. H. Edwards, 1884)  
 c. *Hesperia uncas grandiosa* Austin & McGuire, 1998  
 d. *Hesperia uncas fulvapalla* Austin & McGuire, 1998  
 e. *Hesperia uncas reeseorum* Austin & McGuire, 1998  
 f. *Hesperia uncas terraclivosa* Austin & McGuire, 1998  
 g. *Hesperia uncas giuliani* McGuire, 1998  
 h. *Hesperia uncas macswaini* MacNeill, 1964  
 212. *Hesperia juba* (Scudder, 1874)  
 213. *Hesperia comma* (Linnaeus, 1758)  
 a. *Hesperia comma hulbirti* Lindsey, 1939  
 b. *Hesperia comma manitoba* (Scudder, 1874)  
 c. *Hesperia comma borealis* Lindsey, 1942  
 d. *Hesperia comma laurentina* (Lyman, 1892)  
 214. *Hesperia assiniboia* (Lyman, 1892)  
 215. *Hesperia colorado* (Scudder, 1874)  
 a. *Hesperia colorado colorado* (Scudder, 1874)  
 b. *Hesperia colorado ochracea* Lindsey, 1941  
 c. *Hesperia colorado oroplata* Scott, 1981  
 d. *Hesperia colorado susanae* L. Miller, 1962  
 e. *Hesperia colorado mojaviensis* Austin & McGuire, 1998  
 f. *Hesperia colorado idaho* (W. H. Edwards, 1883)  
 g. *Hesperia colorado leussleri* Lindsey, 1940  
 h. *Hesperia colorado tildeni* H. Freeman, 1956  
 i. *Hesperia colorado harpalus* (W. H. Edwards, 1881)  
 j. *Hesperia colorado oregonia* (W. H. Edwards, 1883)  
 k. *Hesperia colorado mattoonorum* McGuire, 1998  
 l. *Hesperia colorado dodgei* (E. Bell, 1927)  
 216. *Hesperia woodgatei* (R. Williams, 1914)  
 217. *Hesperia ottoe* W. H. Edwards, 1866  
 218. *Hesperia leonardus* T. Harris, 1862  
 a. *Hesperia leonardus leonardus* T. Harris, 1862  
 b. *Hesperia leonardus pawnee* Dodge, 1874  
 c. *Hesperia leonardus montana* (Skinner, 1911)  
 219. *Hesperia pahaska* Leussler, 1938  
 a. *Hesperia pahaska pahaska* Leussler, 1938  
 b. *Hesperia pahaska williamsi* Lindsey, 1940  
 c. *Hesperia pahaska martini* MacNeill, 1964  
 220. *Hesperia columbia* (Scudder, 1872)  
 221. *Hesperia metea* Scudder, 1863  
 a. *Hesperia metea metea* Scudder, 1863

- b. *Hesperia metea intermedia* Gatrell, 2003
- c. *Hesperia metea licinus* (W. H. Edwards, 1871)
- 222. *Hesperia viridis* (W. H. Edwards, 1883)
- 223. *Hesperia attalus* (W. H. Edwards, 1871)
  - a. *Hesperia attalus attalus* (W. H. Edwards, 1871)
  - b. *Hesperia attalus nigrescens* Gatrell, 1999
  - c. *Hesperia attalus slossonae* (Skinner, 1890)
- 224. *Hesperia meskei* (W. H. Edwards, 1877)
  - a. *Hesperia meskei meskei* (W. H. Edwards, 1877)
  - b. *Hesperia meskei straton* (W. H. Edwards, 1881)
  - c. *Hesperia meskei pinocayo* Gatrell & Minno, 2003
- 225. *Hesperia dacotae* (Skinner, 1911)
- 226. *Hesperia lindseyi* (W. Holland, 1930)
  - a. *Hesperia lindseyi lindseyi* (W. Holland, 1930)
  - b. *Hesperia lindseyi macneilli* J. Emmel, T. Emmel & Mattoon, 1998
  - c. *Hesperia lindseyi eldorado* J. Emmel, T. Emmel & Mattoon, 1998
  - d. *Hesperia lindseyi septentrionalis* J. Emmel, T. Emmel & Mattoon, 1998
  - e. *Hesperia lindseyi mccorklei* P. Seaverns & D. Seaverns, 2005
- 227. *Hesperia sassacus* T. Harris, 1862
  - a. *Hesperia sassacus nantahala* Gatrell & Grkovich, 2003
  - b. *Hesperia sassacus sassacus* T. Harris, 1862
  - c. *Hesperia sassacus manitoboides* (J. Fletcher, 1889)
- 228. *Hesperia miriamae* MacNeill, 1959
  - a. *Hesperia miriamae miriamae* MacNeill, 1959
  - b. *Hesperia miriamae longaevicola* McGuire, 1998
- 229. *Hesperia nevada* (Scudder, 1874)
  - a. *Hesperia nevada nevada* (Scudder, 1874)
  - b. *Hesperia nevada sierra* Austin, J. Emmel, T. Emmel & Mattoon, 1998

**POLITES** Scudder, 1872

- 230. *Polites rhesus* (W. H. Edwards, 1878)
- 231. *Polites carus* (W. H. Edwards, 1883)
- 232. *Polites peckius* (W. Kirby, 1837)
  - a. *Polites peckius peckius* (W. Kirby, 1837)
  - b. *Polites peckius surlano* Scott, 2006
- 233. *Polites sabuleti* (Boisduval, 1852)
  - a. *Polites sabuleti sabuleti* (Boisduval, 1852)
  - b. *Polites sabuleti channelensis* J. Emmel & T. Emmel, 1998
  - c. *Polites sabuleti aestivalis* J. Emmel, T. Emmel & Mattoon, 1998
  - d. *Polites sabuleti tecumseh* (F. Grinnell, 1903)
  - e. *Polites sabuleti albamontana* Austin, 1987
  - f. *Polites sabuleti genoa* (Plötz, 1883)
  - g. *Polites sabuleti alkaliensis* Austin, 1987
  - h. *Polites sabuleti sinemaculata* Austin, 1987
  - i. *Polites sabuleti basinensis* Austin, 1988
  - j. *Polites sabuleti nigrescens* Austin, 1987
  - k. *Polites sabuleti chusca* (W. H. Edwards, 1873)
  - l. *Polites sabuleti ministigma* Scott, 1981
- 234. *Polites draco* (W. H. Edwards, 1871)
- 235. *Polites mardon* (W. H. Edwards, 1881)
  - a. *Polites mardon mardon* (W. H. Edwards, 1881)
  - b. *Polites mardon klamathensis* Mattoon, J. Emmel & T. Emmel, 1998
- 236. *Polites themistocles* (Latreille, [1824])
  - a. *Polites themistocles themistocles* (Latreille, [1824])
  - b. *Polites themistocles turneri* H. Freeman, 1944
- 237. *Polites baracoa* (Lucas, 1857)
  - a. *Polites baracoa baracoa* (Lucas, 1857)
- 238. *Polites origenes* (Fabricius, 1793)
  - a. *Polites origenes origenes* (Fabricius, 1793)
  - b. *Polites origenes rhena* (W. H. Edwards, 1878)
- 239. *Polites mystic* (W. H. Edwards, 1863)
  - a. *Polites mystic mystic* (W. H. Edwards, 1863)
  - b. *Polites mystic dacotah* (W. H. Edwards, 1871)
- 240. *Polites sonora* (Scudder, 1872)
  - a. *Polites sonora siris* (W. H. Edwards, 1881)
  - b. *Polites sonora sonora* (Scudder, 1872)
  - c. *Polites sonora flavaventris* Austin, 1998



- d. *Polites sonora longinqua* Austin, 1998
- e. *Polites sonora utahensis* (Skinner, 1911)
- 241. *Polites vibex* (Geyer, 1832)
  - a. *Polites vibex vibex* (Geyer, 1832)
  - b. *Polites vibex brettoides* (W. H. Edwards, 1883)
  - c. *Polites vibex praeceps* (Scudder, 1872)

**WALLENGRENIA** Berg, 1897

- 242. *Wallengrenia otho* (J. E. Smith, 1797)
  - a. *Wallengrenia otho otho* (J. E. Smith, 1797)
  - b. *Wallengrenia otho clavus* (Erichson, [1849])
- 243. *Wallengrenia egeremet* (Scudder, 1863)

**POMPEIUS** Evans, 1955

- 244. *Pompeius verna* (W. H. Edwards, 1862)

**ATALOPEDES** Scudder, 1872

- 245. *Atalopedes campestris* (Boisduval, 1852)
  - a. *Atalopedes campestris campestris* (Boisduval, 1852)
  - b. *Atalopedes campestris huron* (W. H. Edwards, 1863)

**ATRYTONE** Scudder, 1872

- 246. *Atrytone arogos* (Boisduval & Le Conte, [1837])
  - a. *Atrytone arogos arogos* (Boisduval & Le Conte, [1837])
  - b. *Atrytone arogos iowa* (Scudder, 1868)

**PROBLEMA** Skinner & R. Williams, 1924

- 247. *Problema byssus* (W. H. Edwards, 1880)
  - a. *Problema byssus byssus* (W. H. Edwards, 1880)
  - b. *Problema byssus kumskaka* (Scudder, 1887)
- 248. *Problema bulenta* (Boisduval & Le Conte, [1837])

**POANES** Scudder, 1872

- 249. *Poanes hobomok* (T. Harris, 1862)
  - a. *Poanes hobomok hobomok* (T. Harris, 1862)
  - b. *Poanes hobomok monofascies* Gatrell, 2002
  - c. *Poanes hobomok wetona* Scott, 1981
- 250. *Poanes zabulon* (Boisduval & Le Conte, [1837])
- 251. *Poanes taxiles* (W. H. Edwards, 1881)
- 252. *Poanes massasoit* (Scudder, 1863)
  - a. *Poanes massasoit massasoit* (Scudder, 1863)
  - b. *Poanes massasoit chermocki* W. Anderson & Simmons, 1976
- 253. *Poanes viator* (W. H. Edwards, 1865)
  - a. *Poanes viator viator* (W. H. Edwards, 1865)
  - b. *Poanes viator zizaniae* Shapiro, 1971
- 254. *Poanes aaroni* (Skinner, 1890)
  - a. *Poanes aaroni aaroni* (Skinner, 1890)
  - b. *Poanes aaroni minimus* Gatrell, 1999
  - c. *Poanes aaroni howardi* (Skinner, 1896)
  - d. *Poanes aaroni bordeloni* Gatrell, 2000
- 255. *Poanes yehl* (Skinner, 1893)
- 256. *Poanes melane* (W. H. Edwards, 1869)
  - a. *Poanes melane melane* (W. H. Edwards, 1869)
  - b. *Poanes melane vitellina* (Herrich-Schäffer, 1869)

**STINGA** Evans, 1955

- 257. *Stinga morrisoni* (W. H. Edwards, 1878)

**OCHLODES** Scudder, 1872

- 258. *Ochlodes sylvanoides* (Boisduval, 1852)
  - a. *Ochlodes sylvanoides sylvanoides* (Boisduval, 1852)
  - b. *Ochlodes sylvanoides santacruza* Scott, 1981
  - c. *Ochlodes sylvanoides catalina* J. Emmel & T. Emmel, 1998
  - d. *Ochlodes sylvanoides orecoasta* Scott, 1981
  - e. *Ochlodes sylvanoides bonnevillia* Scott, 1981
  - f. *Ochlodes sylvanoides omnigena* Austin, 1998
  - g. *Ochlodes sylvanoides napa* (W. H. Edwards, 1865)

- 259. *Ochlodes agricola* (Boisduval, 1852)
  - a. *Ochlodes agricola agricola* (Boisduval, 1852)
  - b. *Ochlodes agricola nemorum* (Boisduval, 1852)
  - c. *Ochlodes agricola verus* (W. H. Edwards, 1881)
- 260. *Ochlodes yuma* (W. H. Edwards, 1873)
  - a. *Ochlodes yuma sacramentorum* Austin, 1998
  - b. *Ochlodes yuma yuma* (W. H. Edwards, 1873)
  - c. *Ochlodes yuma lutea* Austin, 1998
  - d. *Ochlodes yuma scudderi* (Skinner, 1899)
  - e. *Ochlodes yuma anasazi* S. Cary & Stanford, 1995

**PARATRYTONE** Godman, 1900

- 261. *Paratrytone snowi* (W. H. Edwards, 1877)

**ANATRYTONE** Dyar, 1905

- 262. *Anatrytone logan* (W. H. Edwards, 1863)
  - a. *Anatrytone logan logan* (W. H. Edwards, 1863)
  - b. *Anatrytone logan lagus* (W. H. Edwards, 1881)
- 263. *Anatrytone mazai* (H. Freeman, 1969)

**QUASIMELLANA** Burns, 1994

- 264. *Quasimellana eulogius* (Plötz, 1882)

**NOTAMBLYSCHIRTES** Scott, 2006

- 265. *Notamblyschirtes simius* (W. H. Edwards, 1881)

**EUPHYES** Scudder, 1872

- 266. *Euphyes pilatka* (W. H. Edwards, 1867)
  - a. *Euphyes pilatka pilatka* (W. H. Edwards, 1867)
  - b. *Euphyes pilatka klotsi* L. Miller, Harvey & J. Miller, 1985
- 267. *Euphyes conspicua* (W. H. Edwards, 1863)
  - a. *Euphyes conspicua orono* (Scudder, 1872)
  - b. *Euphyes conspicua conspicua* (W. H. Edwards, 1863)
  - c. *Euphyes conspicua buchholzi* (P. Ehrlich & Gillham, 1951)
- 268. *Euphyes berryi* (E. Bell, 1941)
- 269. *Euphyes dion* (W. H. Edwards, 1879)
- 270. *Euphyes bayensis* Shuey, 1989
- 271. *Euphyes dukesi* (Lindsey, 1923)
  - a. *Euphyes dukesi dukesi* (Lindsey, 1923)
  - b. *Euphyes dukesi calhouni* Shuey, 1996
- 272. *Euphyes bimacula* (Grote & Robinson, 1867)
  - a. *Euphyes bimacula bimacula* (Grote & Robinson, 1867)
  - b. *Euphyes bimacula arbogasti* Gatrell, 1999
  - c. *Euphyes bimacula illinois* (Dodge, 1972)
- 273. *Euphyes arpa* (Boisduval & Le Conte, [1837])
- 274. *Euphyes vestris* (Boisduval, 1852)
  - a. *Euphyes vestris harbisoni* J. Brown & McGuire, 1983
  - b. *Euphyes vestris vestris* (Boisduval, 1852)
  - c. *Euphyes vestris kiawah* (Reakirt, 1866)
  - d. *Euphyes vestris metacomet* (T. Harris, 1862)

**ASBOLIS** Mabille, 1904

- 275. *Asbolis capucinus* (Lucas, 1857)

**ATRYTONOPSIS** Godman, 1900

- 276. *Atrytonopsis hianna* (Scudder, 1868)
  - a. *Atrytonopsis hianna hianna* (Scudder, 1868)
  - b. *Atrytonopsis hianna turneri* H. Freeman, 1948
- 277. *Atrytonopsis loammi* (Whitney, 1876)
- 278. *Atrytonopsis deva* (W. H. Edwards, 1877)
- 279. *Atrytonopsis lunus* (W. H. Edwards, 1884)
- 280. *Atrytonopsis vierecki* (Skinner, 1902)
- 281. *Atrytonopsis pittacus* (W. H. Edwards, 1882)
- 282. *Atrytonopsis python* (W. H. Edwards, 1882)
- 283. *Atrytonopsis cestus* (W. H. Edwards, 1884)
- 284. *Atrytonopsis edwardsi* W. Barnes & McDunnough, 1916

**NYCTELIUS** Hayward, 1948

285. *Nyctelius nyctelius* (Latreille, [1824])  
 a. *Nyctelius nyctelius nyctelius* (Latreille, [1824])

**THESPIEUS** Godman, 1900

286. *Thespieus macareus* (Herrich-Schäffer, 1869)

Superfamily **PAPILIONOIDEA** Latreille, [1802]

Family **PAPILIONIDAE** Latreille, [1802]

Subfamily **Parnassiinae** Duponchel, [1835]

Tribe **Parnassiini** Duponchel, [1835]

**PARNASSIUS** Latreille, 1804

287. *Parnassius eversmanni* [Ménétriés], [1850]  
 a. *Parnassius eversmanni thor* Hy. Edwards, 1881
288. *Parnassius clodius* Ménétriés, 1855  
 a. *Parnassius clodius strohbeeni* Sternitzky, 1945 †  
 b. *Parnassius clodius clodius* Ménétriés, 1855  
 c. *Parnassius clodius claudianus* Stichel, 1907  
 d. *Parnassius clodius pseudogallatinus* Bryk, 1913  
 e. *Parnassius clodius incredibilis* Bryk, 1932  
 f. *Parnassius clodius sol* Bryk & Eisner, 1932  
 g. *Parnassius clodius baldur* W. H. Edwards, 1877  
 h. *Parnassius clodius altaurus* Dyar, 1903  
 i. *Parnassius clodius menetriesii* Hy. Edwards, 1877
289. *Parnassius phoebus* (Fabricius, 1793)  
 a. *Parnassius phoebus apricatus* Stichel, 1906  
 b. *Parnassius phoebus golovinus* W. Holland, 1930
290. *Parnassius behrii* W. H. Edwards, 1870
291. *Parnassius smintheus* E. Doubleday, 1847  
 a. *Parnassius smintheus sternitzkyi* McDunnough, 1937  
 b. *Parnassius smintheus olympianna* Burdick, 1941  
 c. *Parnassius smintheus yukonensis* Eisner, 1969  
 d. *Parnassius smintheus smintheus* E. Doubleday, 1847  
 e. *Parnassius smintheus magnus* W. G. Wright, 1905  
 f. *Parnassius smintheus maximus* Bryk & Eisner, 1937  
 g. *Parnassius smintheus sayii* W. H. Edwards, 1863  
 h. *Parnassius smintheus pseudorotgeri* Eisner, 1966

Subfamily **Papilioninae** Latreille, [1802]

Tribe **Troidini** Talbot, 1939

Subtribe **Troidina** Talbot, 1939

**PARIDES** Hübner, [1819]

Subgenus **Parides** Hübner, [1819]

292. *Parides eurimedes* (Stoll, 1782)  
 a. *Parides eurimedes mylotes* (H. Bates, 1861)
293. *Parides alopis* (Godman & Salvin, 1890)

Subtribe **Battina** Munroe & P. Ehrlich, 1960

**BATTUS** Scopoli, 1777

294. *Battus philenor* (Linnaeus, 1771)  
 a. *Battus philenor philenor* (Linnaeus, 1771)  
 b. *Battus philenor hirsuta* (Skinner, 1908)
295. *Battus polydamas* (Linnaeus, 1758)  
 a. *Battus polydamas polydamas* (Linnaeus, 1758)  
 b. *Battus polydamas lucayus* (Rothschild & Jordan, 1906)

Tribe **Leptocircini** W. F. Kirby, 1896

**EURYTIDES** Hübner, [1821]



Subgenus *Neographium* Möhn, 2002

296. *Eurytides marcellus* (Cramer, 1777)  
 297. *Eurytides philolaus* (Boisduval, 1836)  
     a. *Eurytides philolaus philolaus* (Boisduval, 1836)

Tribe *Papilionini* Latreille, [1802]**PAPILIO** Linnaeus, 1758Subgenus *Papilio* Linnaeus, 1758

298. *Papilio machaon* Linnaeus, 1758  
     a. *Papilio machaon alaska* Scudder, 1869  
     b. *Papilio machaon hudsonianus* A. Clark, 1932  
     c. *Papilio machaon pikei* Sperling, 1987  
     d. *Papilio machaon oregonia* W. H. Edwards, 1876  
     e. *Papilio machaon dodi* McDunnough, 1939  
     f. *Papilio machaon bairdii* W. H. Edwards, 1866  
 299. *Papilio breviceuda* Saunders, 1869  
     a. *Papilio breviceuda breviceuda* Saunders, 1869  
     b. *Papilio breviceuda gaspeensis* McDunnough, 1934  
     c. *Papilio breviceuda bretonensis* McDunnough, 1939  
 300. *Papilio joanae* J. Heitzman, 1973  
 301. *Papilio polyxenes* Fabricius, 1775  
     a. *Papilio polyxenes asterius* Stoll, 1782  
     b. *Papilio polyxenes coloro* W. G. Wright, 1905  
 302. *Papilio zelicaon* Lucas, 1852  
 303. *Papilio indra* Reakirt, 1866  
     a. *Papilio indra indra* Reakirt, 1866  
     b. *Papilio indra shastensis* J. Emmel & T. Emmel, 1998  
     c. *Papilio indra phyllisae* J. Emmel, 1982  
     d. *Papilio indra pergamus* Hy. Edwards, 1874  
     e. *Papilio indra nevadensis* T. Emmel & J. Emmel, 1971  
     f. *Papilio indra panamintensis* J. Emmel, 1982  
     g. *Papilio indra fordii* J. A. Comstock & Martin, 1956  
     h. *Papilio indra martini* J. Emmel & T. Emmel, 1966  
     i. *Papilio indra parvindra* J. Emmel, T. Emmel & Griffin, 2008  
     j. *Papilio indra calcicola* J. Emmel & Griffin, 1998  
     k. *Papilio indra minori* Cross, 1937  
     l. *Papilio indra kaibabensis* Bauer, 1955

Subgenus *Sinoprinceps* Hancock, 1983

304. *Papilio xuthus* Linnaeus, 1767 (emended)

Subgenus *Heraclides* Hübner, [1819]

305. *Papilio thoas* Linnaeus, 1771  
     a. *Papilio thoas autocles* Rothschild & Jordan, 1906  
 306. *Papilio crespontes* Cramer, 1777  
 307. *Papilio astyalus* Godart, 1819  
     a. *Papilio astyalus pallas* G. Gray, [1853]  
     b. *Papilio astyalus bajaensis* J. Brown & Faulkner, 1992  
 308. *Papilio ornythion* Boisduval, 1836  
 309. *Papilio aristodemus* Esper, 1794  
     a. *Papilio aristodemus ponceanus* Schaus, 1911  
 310. *Papilio andraemon* (Hübner, [1823])  
     a. *Papilio andraemon bonhotei* Sharpe, 1900  
 311. *Papilio androgeus* Cramer, 1775  
     a. *Papilio androgeus epidaureus* Godman & Salvin, 1890  
 312. *Papilio anchisiades* Esper, 1788  
     a. *Papilio anchisiades idaeus* Fabricius, 1793  
 313. *Papilio rogeri* Boisduval, 1836  
     a. *Papilio rogeri pharnaces* E. Doubleday, 1846

Subgenus *Pterourus* Scopoli, 1777

314. *Papilio canadensis* Rothschild & Jordan, 1906  
 315. *Papilio appalachiensis* (Pavulaan & D. Wright, 2002)  
 316. *Papilio glaucus* Linnaeus, 1758  
     a. *Papilio glaucus glaucus* Linnaeus, 1758  
     b. *Papilio glaucus maynardi* Gauthier, 1984

- 317. **Papilio alexiars** Höpffer, 1866
  - a. **Papilio alexiars garcia** Rothschild & Jordan, 1906
- 318. **Papilio rutulus** Lucas, 1852
- 319. **Papilio eurymedon** Lucas, 1852 (1805)
- 320. **Papilio multicaudata** W. F. Kirby, 1884
  - a. **Papilio multicaudata multicaudata** W. F. Kirby, 1884
  - b. **Papilio multicaudata pusillus** Austin & J. Emmel, 1998
- 321. **Papilio garamas** (Geyer, [1829])
  - a. **Papilio garamas abderus** Höpffer, 1856
- 322. **Papilio victorinus** E. Doubleday, 1844
  - a. **Papilio victorinus victorinus** E. Doubleday, 1844
- 323. **Papilio pilumnus** Boisduval, 1836
- 324. **Papilio troilus** Linnaeus, 1758
  - a. **Papilio troilus troilus** Linnaeus, 1758
  - b. **Papilio troilus fakahatcheensis** (Gatrelle, 2000)
- 325. **Papilio palamedes** Drury, 1773
  - a. **Papilio palamedes palamedes** Drury, 1773
  - b. **Papilio palamedes leontis** Rothschild & Jordan, 1906

### Family **PIERIDAE** Swainson, 1820

#### Subfamily **Dismorphiinae** Schatz, 1886

#### ENANTIA Hübner, [1819]

- 326. **Enantia albania** (H. Bates, 1864)
  - a. **Enantia albania albania** (H. Bates, 1864)

#### Subfamily **Coliadinae** Swainson, 1821

#### KRICOOGONIA Reakirt, [1864]

- 327. **Kricogonia lyside** (Godart, 1819)

#### NATHALIS Boisduval, 1836

- 328. **Nathalis iole** Boisduval, 1836

#### EUREMA Hübner, [1819]

- 329. **Eurema दौरа** (Godart, 1819)
  - a. **Eurema दौरа palmira** (Poey, [1852])
  - b. **Eurema दौरа दौरа** (Godart, 1819)
  - c. **Eurema दौरа eugenia** (Wallengren, 1860)
  - d. **Eurema दौरа sidonia** (R. Felder, 1869)
- 330. **Eurema boisduvaliana** (C. Felder & R. Felder, 1865)
- 331. **Eurema mexicana** (Boisduval, 1836)
  - a. **Eurema mexicana mexicana** (Boisduval, 1836)
- 332. **Eurema salome** (C. Felder & R. Felder, 1861)
  - a. **Eurema salome jamapa** (Reakirt, 1866)
- 333. **Eurema albula** (Cramer, 1775)
  - a. **Eurema albula celata** (R. Felder, 1869)

#### ABAEIS Hübner, [1819]

- 334. **Abaeis nicippe** (Cramer, 1779)

#### PYRISITIA Butler, 1870

- 335. **Pyrisitia messalina** (Fabricius, 1787)
- 336. **Pyrisitia proterpia** (Fabricius, 1775)
- 337. **Pyrisitia lisa** (Boisduval & Le Conte, [1830])
  - a. **Pyrisitia lisa lisa** (Boisduval & Le Conte, [1830])
  - b. **Pyrisitia lisa centralis** (Herrich-Schäffer, 1865)
- 338. **Pyrisitia nise** (Cramer, 1775)
  - a. **Pyrisitia nise nise** (Cramer, 1775)
  - b. **Pyrisitia nise nelphe** (R. Felder, 1869)
- 339. **Pyrisitia dina** (Poey, 1832)
  - a. **Pyrisitia dina helios** (D. Bates, 1934)
  - b. **Pyrisitia dina westwoodii** (Boisduval, 1836)

#### COLIAS [Fabricius], 1807

- 340. *Colias philodice* Godart, 1819
  - a. *Colias philodice philodice* Godart, 1819
  - b. *Colias philodice eriphyle* W. H. Edwards, 1876
  - c. *Colias philodice vitabunda* Hovanitz, 1943
- 341. *Colias eurytheme* Boisduval, 1852
- 342. *Colias occidentalis* Scudder, 1862
  - a. *Colias occidentalis occidentalis* Scudder, 1862
  - b. *Colias occidentalis chrysomelas* Hy. Edwards, 1877
- 343. *Colias christina* W. H. Edwards, 1863
  - a. *Colias christina kluanensis* Ferris, 1981
  - b. *Colias christina christina* W. H. Edwards, 1863
  - c. *Colias christina sacajawea* Kohler, 2006
  - d. *Colias christina krauthii* Klots, 1935
  - e. *Colias christina pseudochristina* Ferris, 1989
  - f. *Colias christina sullivanii* Hammond & McCorkle, 2003
- 344. *Colias alexandra* W. H. Edwards, 1863
  - a. *Colias alexandra altamont* Kondla & Kohler, 2006
  - b. *Colias alexandra astraeca* W. H. Edwards, 1872
  - c. *Colias alexandra alexandra* W. H. Edwards, 1863
  - d. *Colias alexandra altiplano* M. Fisher & Scott, 2006
  - e. *Colias alexandra apache* Ferris, 1988
  - f. *Colias alexandra edwardsii* W. H. Edwards, 1870
  - g. *Colias alexandra pseudocolumbiensis* C. Guppy & J. Shepard, 2001
  - h. *Colias alexandra columbiensis* Ferris, 1973
- 345. *Colias harfordii* Hy. Edwards, 1877
- 346. *Colias meadii* W. H. Edwards, 1871
  - a. *Colias meadii meadii* W. H. Edwards, 1871
  - b. *Colias meadii elis* Strecker, 1885
  - c. *Colias meadii lemhiensis* N. Curtis & Ferris, 1985
- 347. *Colias johanseni* Troubridge & Philip, 1990
- 348. *Colias hecla* Lefèbvre, 1836
  - a. *Colias hecla hecla* Lefèbvre, 1836
  - b. *Colias hecla hela* Strecker, 1880
  - c. *Colias hecla aquilonaris* Grum-Grshimailo, 1900
- 349. *Colias canadensis* Ferris, 1982
- 350. *Colias tyche* (Böber, 1812)
  - a. *Colias tyche olga* Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001
  - b. *Colias tyche thula* Hovanitz, 1955
  - c. *Colias tyche boothii* J. Curtis, 1835
- 351. *Colias nastes* Boisduval, 1832
  - a. *Colias nastes nastes* Boisduval, 1832
  - b. *Colias nastes moina* Strecker, 1880
  - c. *Colias nastes aliaska* O. Bang-Haas, 1927
  - d. *Colias nastes ferrisi* Verhulst, 2004
  - e. *Colias nastes dezhnevi* Korshunov, 1995
  - f. *Colias nastes streckeri* Grum-Grshimailo, 1895
- 352. *Colias scudderii* Reakirt, 1865
- 353. *Colias gigantea* Strecker, 1900
  - a. *Colias gigantea gigantea* Strecker, 1900
  - b. *Colias gigantea mayi* F. Chermock & R. Chermock, 1940
  - c. *Colias gigantea harroweri* Klots, 1940
- 354. *Colias pelidne* Boisduval & Le Conte, [1830]
  - a. *Colias pelidne pelidne* Boisduval & Le Conte, [1830]
  - b. *Colias pelidne skinneri* W. Barnes, 1897
- 355. *Colias interior* Scudder, 1862
- 356. *Colias palaeno* (Linnaeus, 1761)
  - a. *Colias palaeno chippewa* W. H. Edwards, 1870
  - b. *Colias palaeno baffinensis* Ebner & Ferris, [1978]
- 357. *Colias behrii* W. H. Edwards, 1866

#### ZERENE Hübner, [1819]

- 358. *Zerene cesonia* (Stoll, 1790)
  - a. *Zerene cesonia cesonia* (Stoll, 1790)
- 359. *Zerene eurydice* (Boisduval, 1855)

#### ANTEOS Hübner, [1819]

- 360. *Anteos clorinde* (Godart, [1824])



361. *Anteos maerula* (Fabricius, 1775)

**PHOEBIS** Hübner, [1819]

362. *Phoebis sennae* (Linnaeus, 1758)  
 a. *Phoebis sennae sennae* (Linnaeus, 1758)  
 b. *Phoebis sennae marcellina* (Cramer, 1777)
363. *Phoebis argante* (Fabricius, 1775)  
 a. *Phoebis argante argante* (Fabricius, 1775)
364. *Phoebis agarithe* (Boisduval, 1836)  
 a. *Phoebis agarithe fisheri* (Hy. Edwards, 1883)  
 b. *Phoebis agarithe agarithe* (Boisduval, 1836)  
 c. *Phoebis agarithe maxima* (Neumoegen, 1891)
365. *Phoebis philea* (Linnaeus, 1763)  
 a. *Phoebis philea philea* (Linnaeus, 1763)
366. *Phoebis neocypris* (Hübner, [1823])  
 a. *Phoebis neocypris virgo* (Butler, 1870)

**APHRISSA** Butler, 1873

367. *Aphrissa statira* (Cramer, 1777)  
 a. *Aphrissa statira statira* (Cramer, 1777)  
 b. *Aphrissa statira floridensis* (Neumoegen, 1891)
368. *Aphrissa orbis* (Poey, 1832)  
 a. *Aphrissa orbis orbis* (Poey, 1832)

Subfamily **Pierinae** Swainson, 1820

Tribe **Anthocharidini** Scudder, 1889

**ANTHOCHARIS** Boisduval, Rambur, [Duméril] & Graslin, [1833]

Subgenus *Anthocharis* Boisduval, Rambur, [Duméril] & Graslin, [1833]

369. *Anthocharis cethura* C. Felder & R. Felder, 1865  
 a. *Anthocharis cethura catalina* Meadows, 1937  
 b. *Anthocharis cethura cethura* C. Felder & R. Felder, 1865  
 c. *Anthocharis cethura morrisoni* W. H. Edwards, 1881  
 d. *Anthocharis cethura hadromarmorata* J. Emmel, T. Emmel & Mattoon, 1998  
 e. *Anthocharis cethura mojavenensis* J. Emmel, T. Emmel & Mattoon, 1998  
 f. *Anthocharis cethura pima* W. H. Edwards, 1888
370. *Anthocharis sara* Lucas, 1852  
 a. *Anthocharis sara gunderi* Ingham, 1933  
 b. *Anthocharis sara sara* Lucas, 1852  
 c. *Anthocharis sara flora* W. G. Wright, 1892  
 d. *Anthocharis sara alaskensis* Gunder, 1932  
 e. *Anthocharis sara stella* W. H. Edwards, 1879  
 f. *Anthocharis sara sulfuris* Pelham, 2008  
 g. *Anthocharis sara browningi* Skinner, 1906  
 h. *Anthocharis sara julia* W. H. Edwards, 1872  
 i. *Anthocharis sara inghami* Gunder, 1932  
 j. *Anthocharis sara thoosa* (Scudder, 1878)  
 k. *Anthocharis sara pseudothoosa* Austin, 1998

Subgenus *Paramidea* Kuznetsov, 1929

371. *Anthocharis midea* (Hübner, [1809])  
 a. *Anthocharis midea annickae* dos Passos & Klots, 1969  
 b. *Anthocharis midea midea* (Hübner, [1809])  
 c. *Anthocharis midea texana* Gattelle, 1998
372. *Anthocharis lanceolata* Lucas, 1852  
 a. *Anthocharis lanceolata lanceolata* Lucas, 1852  
 b. *Anthocharis lanceolata australis* (F. Grinnell, 1908)  
 c. *Anthocharis lanceolata desertolimbus* J. Emmel, T. Emmel & Mattoon, 1998

**EUCHLOE** Hübner, [1819]

373. *Euchloe ausonides* (Lucas, 1852)  
 a. *Euchloe ausonides ausonides* (Lucas, 1852)  
 b. *Euchloe ausonides insulanus* C. Guppy & J. Shepard, 2001  
 c. *Euchloe ausonides transmontana* Austin & J. Emmel, 1998  
 d. *Euchloe ausonides coloradensis* (Hy. Edwards, 1881)  
 e. *Euchloe ausonides palaeoreios* K. Johnson, 1976

- f. *Euchloe ausonides mayi* F. Chermock & R. Chermock, 1940
- g. *Euchloe ausonides ogilvia* Back, 1991
- 374. *Euchloe naina* Kozhanchikov, 1923
  - a. *Euchloe naina jakutia* Back, 1991
- 375. *Euchloe olympia* (W. H. Edwards, 1871)
- 376. *Euchloe creusa* (E. Doubleday, [1847])
  - a. *Euchloe creusa creusa* (E. Doubleday, [1847])
- 377. *Euchloe hyantis* (W. H. Edwards, 1871)
  - a. *Euchloe hyantis hyantis* (W. H. Edwards, 1871)
  - b. *Euchloe hyantis andrewsi* Martin, 1958
- 378. *Euchloe lotta* Beutenmüller, 1898
- 379. *Euchloe guaymasensis* Opler, 1987

Tribe **Pierini** Swainson, 1820

Subtribe **Appiadina** Kuznetsov, 1929

**GLUTOPHRISSA** Butler, 1887

- 380. *Glutophrissa drusilla* (Cramer, 1779)
  - a. *Glutophrissa drusilla tenuis* (Lamas, 1981)
  - b. *Glutophrissa drusilla neumogenii* (Skinner, 1894)

Subtribe **Aporiina** Chapman, 1895

**MELETE** Swainson, 1831

- 381. *Melete lycimnia* (Cramer, 1777)
  - a. *Melete lycimnia isandra* (Boisduval, 1836)

**NEOPHASIA** Behr, 1869

- 382. *Neophasia menapia* (C. Felder & R. Felder, 1859)
  - a. *Neophasia menapia tehachapina* J. Emmel, T. Emmel & Mattoon, 1998
  - b. *Neophasia menapia menapia* (C. Felder & R. Felder, 1859)
  - c. *Neophasia menapia melanica* Scott, 1981
  - d. *Neophasia menapia tau* (Scudder, 1861)
  - e. *Neophasia menapia magnamenapia* Austin, 1998
- 383. *Neophasia terlooii* Behr, 1869

**CATASTICTA** Butler, 1870

- 384. *Catasticta nimbice* (Boisduval, 1836)
  - a. *Catasticta nimbice nimbice* (Boisduval, 1836)

Subtribe **Pierina** Swainson, 1820

**PIERIBALLIA** Klots, 1933

- 385. *Pieriballia viardi* (Boisduval, 1836)
  - a. *Pieriballia viardi viardi* (Boisduval, 1836)

**ITABALLIA** Kaye, 1904

- 386. *Itaballia demophile* (Linnaeus, 1763)
  - a. *Itaballia demophile centralis* Joicey & Talbot, 1928

**LEPTOPHOBIA** Butler, 1870

- 387. *Leptophobia aripa* (Boisduval, 1836)
  - a. *Leptophobia aripa elodia* (Boisduval, 1836)

**PIERIS** Schrank, 1801

- 388. *Pieris angelika* Eitschberger, [1984]
- 389. *Pieris marginalis* Scudder, 1861
  - a. *Pieris marginalis pseudobryoniae* Fruhstorfer, 1909
  - b. *Pieris marginalis shapiro* Eitschberger, [1984]
  - c. *Pieris marginalis hulda* W. H. Edwards, 1869
  - d. *Pieris marginalis meckya* Eitschberger, [1984]
  - e. *Pieris marginalis guppyi* Eitschberger, [1984]
  - f. *Pieris marginalis tremblayi* Eitschberger, [1984]
  - g. *Pieris marginalis reicheli* Eitschberger, [1984]
  - h. *Pieris marginalis marginalis* Scudder, 1861
  - i. *Pieris marginalis sequoia* J. Emmel, T. Emmel & Mattoon, 1998

- j. *Pieris marginalis venosa* Scudder, 1861
- k. *Pieris marginalis castoria* Reakirt, 1866
- l. *Pieris marginalis zeigleri* Eitschberger, 1991
- m. *Pieris marginalis pallidissima* W. Barnes & McDunnough, 1916
- n. *Pieris marginalis pseudonapi* W. Barnes & McDunnough, 1916
- o. *Pieris marginalis mogollon* Burdick, 1942
- 390. *Pieris oleracea* (T. Harris, 1829)
  - a. *Pieris oleracea oleracea* (T. Harris, 1829)
  - b. *Pieris oleracea frigida* Scudder, 1861
- 391. *Pieris virginiensis* W. H. Edwards, 1870
  - a. *Pieris virginiensis virginiensis* W. H. Edwards, 1870
  - b. *Pieris virginiensis hyatti* Eitschberger, [1984]
- 392. *Pieris rapae* (Linnaeus, 1758)
  - a. *Pieris rapae rapae* (Linnaeus, 1758)

**PONTIA** [Fabricius], 1807

- 393. *Pontia beckerii* (W. H. Edwards, 1871)
- 394. *Pontia protodice* (Boisduval & Le Conte, [1830])
- 395. *Pontia occidentalis* (Reakirt, 1866)
  - a. *Pontia occidentalis occidentalis* (Reakirt, 1866)
  - b. *Pontia occidentalis nelsoni* (W. H. Edwards, 1883)
- 396. *Pontia sisymbrii* (Boisduval, 1852)
  - a. *Pontia sisymbrii sisymbrii* (Boisduval, 1852)
  - b. *Pontia sisymbrii nigravenosa* Austin & J. Emmel, 1998
  - c. *Pontia sisymbrii transversa* R. Holland, 1995
  - d. *Pontia sisymbrii elivata* (W. Barnes & Benjamin, 1926)
  - e. *Pontia sisymbrii nordini* (K. Johnson, 1977)
  - f. *Pontia sisymbrii flavitincta* (J. A. Comstock, 1924)
  - g. *Pontia sisymbrii beringiensis* C. Guppy & Kondla, 2001

**ASCIA** Scopoli, 1777

- 397. *Ascia monuste* (Linnaeus, 1764)
  - a. *Ascia monuste monuste* (Linnaeus, 1764)
  - b. *Ascia monuste phileta* (Fabricius, 1775)
  - c. *Ascia monuste eubotea* (Godart, 1819)

**GANYRA** Billberg, 1820

- 398. *Ganyra josephina* (Godart, 1819)
  - a. *Ganyra josephina josepha* (Salvin & Godman, 1868)
- 399. *Ganyra howarthi* (Dixey, 1915)

Family **LYCAENIDAE** [Leach], [1815]Subfamily **Miletinae** Reuter, 1896 (1886)Tribe **Miletini** Reuter, 1896 (1886)Subtribe **Spalgina** Toxopeus, 1929**FENISECA** Grote, 1869

- 400. *Feniseca tarquinius* (Fabricius, 1793)
  - a. *Feniseca tarquinius tarquinius* (Fabricius, 1793)
  - b. *Feniseca tarquinius novascotiae* McDunnough, 1935

Subfamily **Lycaeninae** [Leach], [1815]Tribe **Lycaenini** [Leach], [1815]**LYCAENA** [Fabricius], 1807Subgenus **Lyceana** [Fabricius], 1807

- 401. *Lycaena phlaeas* (Linnaeus, 1761)
  - a. *Lycaena phlaeas hypophlaeas* (Boisduval, 1852)
  - b. *Lycaena phlaeas feildeni* (M'Lachlan, 1878)
  - c. *Lycaena phlaeas arethusa* (Dod, 1907)
  - d. *Lycaena phlaeas arctodon* Ferris, 1974
  - e. *Lycaena phlaeas alpestris* J. Emmel & Pratt, 1998



402. *Lycaena cupreus* (W. H. Edwards, 1870)  
 a. *Lycaena cupreus lapidicola* J. Emmel & Pratt, 1998  
 b. *Lycaena cupreus cupreus* (W. H. Edwards, 1870)  
 c. *Lycaena cupreus snowi* (W. H. Edwards, [1881])

Subgenus *Tharsalea* Scudder, 1876

403. *Lycaena arota* (Boisduval, 1852)  
 a. *Lycaena arota arota* (Boisduval, 1852)  
 b. *Lycaena arota virginiensis* (W. H. Edwards, 1870)  
 c. *Lycaena arota nubila* (J. A. Comstock, 1926)  
 d. *Lycaena arota schellbachi* (Tilden, 1955)

Subgenus *Hermelycaena* L. Miller & F. Brown, 1979

404. *Lycaena hermes* (W. H. Edwards, 1870)

Subgenus *Chalceria* Scudder, 1876

405. *Lycaena dione* (Scudder, 1868)  
 406. *Lycaena editha* (Mead, 1878)  
 a. *Lycaena editha editha* (Mead, 1878)  
 b. *Lycaena editha pseudonexa* J. Emmel & Pratt, 1998  
 c. *Lycaena editha obscuramaculata* Austin, 1989  
 d. *Lycaena editha vurali* Koçak, 1984  
 407. *Lycaena xanthoides* (Boisduval, 1852)  
 a. *Lycaena xanthoides nigromaculata* J. Emmel & Pratt, 1998  
 b. *Lycaena xanthoides xanthoides* (Boisduval, 1852)  
 c. *Lycaena xanthoides obsolescens* J. Emmel & Pratt, 1998  
 408. *Lycaena gorgon* (Boisduval, 1852)  
 a. *Lycaena gorgon gorgon* (Boisduval, 1852)  
 b. *Lycaena gorgon micropunctata* J. Emmel & Pratt, 1998  
 c. *Lycaena gorgon jacquelineae* J. Emmel & Pratt, 1998  
 d. *Lycaena gorgon dorothea* J. Emmel & Pratt, 1998  
 409. *Lycaena rubidus* (Behr, 1866)  
 a. *Lycaena rubidus monachensis* K. Johnson & Balogh, 1977  
 b. *Lycaena rubidus incana* Austin, 1998  
 c. *Lycaena rubidus rubidus* (Behr, 1866)  
 d. *Lycaena rubidus duofascies* K. Johnson & Balogh, 1977  
 e. *Lycaena rubidus perkinsorum* K. Johnson & Balogh, 1977  
 f. *Lycaena rubidus longi* K. Johnson & Balogh, 1977  
 g. *Lycaena rubidus sirius* (W. H. Edwards, 1871)  
 h. *Lycaena rubidus ferrisi* K. Johnson & Balogh, 1977  
 410. *Lycaena heteronea* Boisduval, 1852  
 a. *Lycaena heteronea heteronea* Boisduval, 1852  
 b. *Lycaena heteronea northi* J. Emmel & Pratt, 1998  
 c. *Lycaena heteronea submaculata* J. Emmel & Pratt, 1998  
 d. *Lycaena heteronea clara* Hy. Edwards, 1877  
 e. *Lycaena heteronea rutila* Austin, 1998  
 f. *Lycaena heteronea rava* Austin, 1998  
 g. *Lycaena heteronea klotsi* W. D. Field, 1936  
 h. *Lycaena heteronea gravenotata* Klots, 1930

Subgenus *Epidemia* Scudder, 1876

411. *Lycaena hyllus* (Cramer, 1775)  
 412. *Lycaena epixanthe* (Boisduval & Le Conte, [1835])  
 a. *Lycaena epixanthe epixanthe* (Boisduval & Le Conte, [1835])  
 b. *Lycaena epixanthe phaedra* (G. Hall, 1924)  
 c. *Lycaena epixanthe michiganensis* Rawson, 1948  
 413. *Lycaena dorcas* W. Kirby, 1837  
 a. *Lycaena dorcas claytoni* A. E. Brower, 1940  
 b. *Lycaena dorcas michuron* Scott, 2006  
 c. *Lycaena dorcas dorcas* W. Kirby, 1837  
 d. *Lycaena dorcas arcticus* (Ferris, 1977)  
 e. *Lycaena dorcas florus* (W. H. Edwards, [1884])  
 f. *Lycaena dorcas megaloceras* (Ferris, 1977)  
 g. *Lycaena dorcas castro* (Reakirt, 1866)  
 414. *Lycaena dospassosi* McDunnough, 1940  
 415. *Lycaena helloides* (Boisduval, 1852)  
 416. *Lycaena nivalis* (Boisduval, 1869)

- a. *Lycaena nivalis nivalis* (Boisduval, 1869)
- b. *Lycaena nivalis bichroma* J. Emmel & Pratt, 1998
- c. *Lycaena nivalis warnermontana* J. Emmel & Pratt, 1998
- d. *Lycaena nivalis praetexta* Austin, 1998
- e. *Lycaena nivalis browni* dos Passos, 1938
- 417. *Lycaena mariposa* (Reakirt, 1866)
  - a. *Lycaena mariposa mariposa* (Reakirt, 1866)
  - b. *Lycaena mariposa charlottensis* (W. Holland, 1930)
  - c. *Lycaena mariposa penroseae* W. D. Field, 1938

Subfamily **Theclinae** Swainson, 1831 (1820)

Tribe **Theclini** Swainson, 1831 (1820)

**HYPAUROTIS** Scudder, 1876

- 418. *Hypaurotis crysalus* (W. H. Edwards, 1873)
  - a. *Hypaurotis crysalus crysalus* (W. H. Edwards, 1873)
  - b. *Hypaurotis crysalus intermedia* Austin, 1998
  - c. *Hypaurotis crysalus citima* (Hy. Edwards, 1881)

**HABRODAIS** Scudder, 1876

- 419. *Habrodais grunus* (Boisduval, 1852)
  - a. *Habrodais grunus lorquini* W. D. Field, 1938
  - b. *Habrodais grunus grunus* (Boisduval, 1852)
  - c. *Habrodais grunus herri* W. D. Field, 1938

Tribe **Eumaeini** E. Doubleday, 1847

Subtribe **Eumaeina** E. Doubleday, 1847

**EUMAEUS** Hübner, [1819]

- 420. *Eumaeus toxea* (Godart, [1824])
- 421. *Eumaeus atala* (Poey, 1832)

**ATLIDES** Hübner, [1819]

- 422. *Atlides halesus* (Cramer, 1777)
  - a. *Atlides halesus halesus* (Cramer, 1777)
  - b. *Atlides halesus corcorani* Clench, 1942

**REKOA** Kaye, 1904

- 423. *Rekoa palegon* (Cramer, 1780)
- 424. *Rekoa marius* (Lucas, 1857)

**ARAWACUS** Kaye, 1904

- 425. *Arawacus jada* (Hewitson, 1867)

**SATYRIUM** Scudder, 1876

Subgenus **Satyrium** Scudder, 1876

- 426. *Satyrium fuliginosa* (W. H. Edwards, 1861)
  - a. *Satyrium fuliginosa fuliginosum* (W. H. Edwards, 1861)
  - b. *Satyrium fuliginosa tildeni* Mattoon & Austin, 1998
  - c. *Satyrium fuliginosa albolineatum* Mattoon & Austin, 1998
- 427. *Satyrium semiluna* Klots, 1930
  - a. *Satyrium semiluna semiluna* Klots, 1930
  - b. *Satyrium semiluna maculadistinctum* Mattoon & Austin, 1998
- 428. *Satyrium behrii* (W. H. Edwards, 1870)
  - a. *Satyrium behrii behrii* (W. H. Edwards, 1870)
  - b. *Satyrium behrii columbia* (McDunnough, 1944)
  - c. *Satyrium behrii crossi* (W. D. Field, 1938)
- 429. *Satyrium acadica* (W. H. Edwards, 1862)
  - a. *Satyrium acadica acadica* (W. H. Edwards, 1862)
  - b. *Satyrium acadica montanensis* (F. Watson & W. Comstock, 1920)
  - c. *Satyrium acadica coolinensis* (F. Watson & W. Comstock, 1920)
- 430. *Satyrium californica* (W. H. Edwards, 1862)
  - a. *Satyrium californica californica* (W. H. Edwards, 1862)
  - b. *Satyrium californica cygnus* (W. H. Edwards, 1871)
  - c. *Satyrium californica obscurafacies* Austin, 1998

- d. *Satyrium californica brashor* Kondla & Scott, 2006
- e. *Satyrium californica wapiti* M. Fisher, 2006
- 431. *Satyrium sylvinus* (Boisduval, 1852)
  - a. *Satyrium sylvinus sylvinus* (Boisduval, 1852)
  - b. *Satyrium sylvinus nootka* M. Fisher, 1998
  - c. *Satyrium sylvinus putnami* (Hy. Edwards, 1877)
  - d. *Satyrium sylvinus megapallidum* Austin, 1998
  - e. *Satyrium sylvinus itys* (W. H. Edwards, 1882)
  - f. *Satyrium sylvinus desertorum* (F. Grinnell, 1917)
  - g. *Satyrium sylvinus dryope* (W. H. Edwards, 1870)
- 432. *Satyrium titus* (Fabricius, 1793)
  - a. *Satyrium titus titus* (Fabricius, 1793)
  - b. *Satyrium titus winteri* (Gatrelle, 2004)
  - c. *Satyrium titus campus* (Gatrelle, 2004)
  - d. *Satyrium titus watsoni* (W. Barnes & Benjamin, 1926)
  - e. *Satyrium titus immaculosus* (W. Comstock, 1913)
  - f. *Satyrium titus occidentalis* Austin & J. Emmel, 1998
- 433. *Satyrium edwardsii* (Grote & Robinson, 1867)
  - a. *Satyrium edwardsii edwardsii* (Grote & Robinson, 1867)
  - b. *Satyrium edwardsii meridionale* Gatrelle, 2001
- 434. *Satyrium calanus* (Hübner, [1809])
  - a. *Satyrium calanus calanus* (Hübner, [1809])
  - b. *Satyrium calanus falacer* (Godart, [1824])
  - c. *Satyrium calanus godarti* (W. D. Field, 1938)
  - d. *Satyrium calanus albidus* Scott, 1981
- 435. *Satyrium caryaevorus* (McDunnough, 1942)
- 436. *Satyrium kingi* (Klots & Clench, 1952)
- 437. *Satyrium liparops* (Le Conte, 1833) (1793)
  - a. *Satyrium liparops floridensis* Gatrelle, 2001
  - b. *Satyrium liparops liparops* (Le Conte, 1833) (1793)
  - c. *Satyrium liparops strigosa* (T. Harris, 1862)
  - d. *Satyrium liparops fletcheri* (Michener & dos Passos, 1942)
  - e. *Satyrium liparops aliparops* (Michener & dos Passos, 1942)
- 438. *Satyrium auretteum* (Boisduval, 1852)
  - a. *Satyrium auretteum auretteum* (Boisduval, 1852)
  - b. *Satyrium auretteum spadix* (Hy. Edwards, 1881)
  - c. *Satyrium auretteum fumosum* J. Emmel & Mattoni, 1990
- 439. *Satyrium tetra* (W. H. Edwards, 1870)
- 440. *Satyrium saepium* (Boisduval, 1852)
  - a. *Satyrium saepium saepium* (Boisduval, 1852)
  - b. *Satyrium saepium fulvescens* (Hy. Edwards, 1877)
  - c. *Satyrium saepium chalcis* (W. H. Edwards, 1869)
  - d. *Satyrium saepium rubrotenebrosum* J. Emmel, T. Emmel & Mattoon, 1998
  - e. *Satyrium saepium caliginosum* J. Emmel, T. Emmel & Mattoon, 1998
  - f. *Satyrium saepium chlorophora* (Watson & W. Comstock, 1920)
  - g. *Satyrium saepium subaridum* J. Emmel, T. Emmel & Mattoon, 1998
  - h. *Satyrium saepium obscurifuscum* Austin, 1998
  - i. *Satyrium saepium latalinea* Austin & Savage, 1998
  - j. *Satyrium saepium provo* (F. Watson & W. Comstock, 1920)

Subgenus *Fixsenia* Tutt, 1907

- 441. *Satyrium favonius* (J. E. Smith, 1797)
  - a. *Satyrium favonius favonius* (J. E. Smith, 1797)
  - b. *Satyrium favonius ontario* (W. H. Edwards, 1868)
  - c. *Satyrium favonius autolytus* (W. H. Edwards, 1871)
  - d. *Satyrium favonius violae* (D. Stallings & Turner, 1947)
- 442. *Satyrium ilavia* (Beutenmüller, 1899)
- 443. *Satyrium polingi* (W. Barnes & Benjamin, 1926)
  - a. *Satyrium polingi polingi* (W. Barnes & Benjamin, 1926)
  - b. *Satyrium polingi organensis* Ferris, 1980

PHAEOSTRYMON Clench, 1961

- 444. *Phaeostrymon alcestis* (W. H. Edwards, 1871)
  - a. *Phaeostrymon alcestis alcestis* (W. H. Edwards, 1871)
  - b. *Phaeostrymon alcestis osleri* (Dyar, 1904)

OCARIA Clench, 1970

- 445. *Ocaria ocrisia* (Hewitson, 1868)



**CHLOROSTRYMON** Clench, 1961

- 446. *Chlorostrymon simaethis* (Drury, 1773)
  - a. *Chlorostrymon simaethis simaethis* (Drury, 1773)
  - b. *Chlorostrymon simaethis sarita* (Skinner, 1895)
- 447. *Chlorostrymon maesites* (Herrich-Schäffer, 1864)
- 448. *Chlorostrymon telea* (Hewitson, 1868)

**CYANOPHRYS** Clench, 1961

- 449. *Cyanophrys goodsoni* (Clench, 1946)
- 450. *Cyanophrys herodotus* (Fabricius, 1793)
- 451. *Cyanophrys miserabilis* (Clench, 1946)

**CALLOPHRYS** Billberg, 1820Subgenus *Callophrys* Billberg, 1820

- 452. *Callophrys affinis* (W. H. Edwards, 1862)
  - a. *Callophrys affinis washingtonia* Clench, 1944
  - b. *Callophrys affinis affinis* (W. H. Edwards, 1862)
  - c. *Callophrys affinis homoperplexa* W. Barnes & Benjamin, 1923
  - d. *Callophrys affinis apama* (W. H. Edwards, 1882)
  - e. *Callophrys affinis albipalpis* Gorelick, 2005
- 453. *Callophrys dumetorum* (Boisduval, 1852)
- 454. *Callophrys sheridanii* (W. H. Edwards, 1877) (emended)
  - a. *Callophrys sheridanii pseudodumetorum* J. Emmel, T. Emmel & Mattoon, 1998
  - b. *Callophrys sheridanii newcomeri* Clench, 1963
  - c. *Callophrys sheridanii lemberti* Tilden, 1963
  - d. *Callophrys sheridanii interrupta* Austin, 1998
  - e. *Callophrys sheridanii comstocki* Henne, 1940
  - f. *Callophrys sheridanii paradoxa* Scott, 1986
  - g. *Callophrys sheridanii neoperplexa* W. Barnes & Benjamin, 1923
  - h. *Callophrys sheridanii sheridanii* (W. H. Edwards, 1877) (emended)
  - i. *Callophrys sheridanii sacramento* Scott, 2006
- 455. *Callophrys perplexa* W. Barnes & Benjamin, 1923
  - a. *Callophrys perplexa superperplexa* J. Emmel, T. Emmel & Mattoon, 1998
  - b. *Callophrys perplexa perplexa* W. Barnes & Benjamin, 1923
  - c. *Callophrys perplexa oregonensis* Gorelick, [1970]

Subgenus *Mitoura* Scudder, 1872 (emended)

- 456. *Callophrys gryneus* (Hübner, [1819])
  - a. *Callophrys gryneus sweadneri* (F. Chermock, 1945)
  - b. *Callophrys gryneus smilacis* (Boisduval & Le Conte, [1835])
  - c. *Callophrys gryneus gryneus* (Hübner, [1819])
  - d. *Callophrys gryneus castalis* (W. H. Edwards, 1871)
  - e. *Callophrys gryneus siva* (W. H. Edwards, 1874)
  - f. *Callophrys gryneus chalcosiva* Clench, 1981
  - g. *Callophrys gryneus nelsoni* (Boisduval, 1869)
  - h. *Callophrys gryneus plicataria* K. Johnson, 1976
  - i. *Callophrys gryneus rosneri* K. Johnson, 1976
  - j. *Callophrys gryneus byrnei* K. Johnson, 1976
  - k. *Callophrys gryneus juniperaria* (J. A. Comstock, 1925)
  - l. *Callophrys gryneus mansfieldi* (Tilden, 1951)
  - m. *Callophrys gryneus loki* (Skinner, 1907)
- 457. *Callophrys muii* (Hy. Edwards, 1881)
- 458. *Callophrys thornei* (J. Brown, 1983)
- 459. *Callophrys hesseli* (Rawson & Ziegler, 1950)
  - a. *Callophrys hesseli hesseli* (Rawson & Ziegler, 1950)
  - b. *Callophrys hesseli angulata* (Gatrelle, 2001)

Subgenus *Xamia* Clench, 1961

- 460. *Callophrys xami* (Reakirt, [1867])
  - a. *Callophrys xami xami* (Reakirt, [1867])
  - b. *Callophrys xami texami* Clench, 1981

Subgenus *Sandia* Clench & P. Ehrlich, 1960

- 461. *Callophrys mcfarlandi* P. Ehrlich & Clench, 1960

Subgenus *Cisincisalia* K. Johnson, 1992

- 462. *Callophrys spinetorum* (Hewitson, 1867)

- a. *Callophrys spinetorum spinetorum* (Hewitson, 1867)
  - b. *Callophrys spinetorum millerorum* Clench, 1981
  - 463. *Callophrys johnsoni* (Skinner, 1904)
- Subgenus *Incisalia* Scudder, 1872
- 464. *Callophrys augustinus* (Westwood, 1852)
    - a. *Callophrys augustinus croesioides* (Scudder, 1876)
    - b. *Callophrys augustinus helenae* (dos Passos, 1943)
    - c. *Callophrys augustinus augustinus* (Westwood, 1852)
    - d. *Callophrys augustinus concava* (Austin, 1998)
    - e. *Callophrys augustinus iroides* (Boisduval, 1852)
    - f. *Callophrys augustinus annetteae* (dos Passos, 1943)
  - 465. *Callophrys fotis* (Strecker, [1878])
    - a. *Callophrys fotis fotis* (Strecker, [1878])
    - b. *Callophrys fotis mojaviensis* (Austin, 1998)
  - 466. *Callophrys mossii* (Hy. Edwards, 1881)
    - a. *Callophrys mossii schryveri* (Cross, 1937)
    - b. *Callophrys mossii mossii* (Hy. Edwards, 1881)
    - c. *Callophrys mossii marinensis* (J. Emmel, T. Emmel & Matton, 1998)
    - d. *Callophrys mossii bayensis* R. Brown, 1969
    - e. *Callophrys mossii doudoroffi* (dos Passos, 1940)
    - f. *Callophrys mossii hidakupa* (J. Emmel, T. Emmel & Mattoon, 1998)
    - g. *Callophrys mossii windi* (Clench, 1943)
  - 467. *Callophrys polios* (Cook & F. Watson, 1907)
    - a. *Callophrys polios polios* (Cook & F. Watson, 1907)
    - b. *Callophrys polios obscurus* (Ferris & M. Fisher, 1973)
    - c. *Callophrys polios maritima* (J. Emmel, T. Emmel & Mattoon, 1998)
  - 468. *Callophrys irus* (Godart, [1824])
    - a. *Callophrys irus irus* (Godart, [1824])
    - b. *Callophrys irus arsace* (Boisduval & Le Conte, [1835])
    - c. *Callophrys irus hadros* (Cook & F. Watson, 1907)
  - 469. *Callophrys henrici* (Grote & Robinson, 1867)
    - a. *Callophrys henrici henrici* (Grote & Robinson, 1867)
    - b. *Callophrys henrici viridissima* (Pavulaan, 1998)
    - c. *Callophrys henrici yahwehus* (Gatrelle, 1999)
    - d. *Callophrys henrici margaretae* (dos Passos, 1943)
    - e. *Callophrys henrici turneri* (Clench, 1943)
    - f. *Callophrys henrici solatus* (Cook & F. Watson, 1909)
  - 470. *Callophrys lanoraicensis* (Sheppard, 1934)
  - 471. *Callophrys niphon* (Hübner, [1819]) (1793)
    - a. *Callophrys niphon niphon* (Hübner, [1819]) (1793)
    - b. *Callophrys niphon clarki* (T. Freeman, 1938)
  - 472. *Callophrys eryphon* (Boisduval, 1852)
    - a. *Callophrys eryphon purpurascens* (Austin & J. Emmel, 1998)
    - b. *Callophrys eryphon sheldonensis* (F. Chermock & Frechin, [1949])
    - c. *Callophrys eryphon eryphon* (Boisduval, 1852)
    - d. *Callophrys eryphon pallescens* (Austin, 1998)
    - e. *Callophrys eryphon fusca* (Austin, 1998)

#### ALLOSMAITIA Clench, [1964]

- 473. *Allosmaitia strophius* (Godart, [1824])

#### ZIEGLERIA K. Johnson, 1993

- 474. *Ziegleria guzanta* (Schaus, 1902)

#### ELECTROSTRYMON Clench, 1961

- 475. *Electrostrymon hugon* (Godart, [1824])
- 476. *Electrostrymon joya* (Dognin, 1895)
- 477. *Electrostrymon angelia* (Hewitson, 1874)
  - a. *Electrostrymon angelia angelia* (Hewitson, 1874)

#### CALYCOPIS Scudder, 1876

- 478. *Calycopis cecrops* (Fabricius, 1793)
- 479. *Calycopis isobea* (Butler & H. Druce, 1872)

#### STRYMON Hübner, 1818

- 480. *Strymon melinus* Hübner, 1818

- a. *Strymon melinus melinus* Hübner, 1818
- b. *Strymon melinus humuli* (T. Harris, 1842)
- c. *Strymon melinus franki* W. D. Field, 1938
- d. *Strymon melinus setonia* McDunnough, 1927
- e. *Strymon melinus atrofasciata* McDunnough, 1921
- f. *Strymon melinus pudica* (Hy. Edwards, 1877)
- 481. *Strymon avalona* (W. G. Wright, 1905)
- 482. *Strymon rufofusca* (Hewitson, 1877)
- 483. *Strymon albata* (C. Felder & R. Felder, 1865)
- 484. *Strymon alea* (Godman & Salvin, 1887)
- 485. *Strymon bebrycia* (Hewitson, 1868)
- 486. *Strymon yojoa* (Reakirt, [1867])
- 487. *Strymon cestræ* (Reakirt, [1867])
- 488. *Strymon martialis* (Herrich-Schäffer, 1864)
- 489. *Strymon acis* (Drury, 1773)
  - a. *Strymon acis bartrami* (W. Comstock & Huntington, 1943)
- 490. *Strymon bazochii* (Godart, [1824])
  - a. *Strymon bazochii bazochii* (Godart, [1824])
- 491. *Strymon istapa* (Reakirt, [1867])
  - a. *Strymon istapa modesta* (Maynard, 1873)
  - b. *Strymon istapa istapa* (Reakirt, [1867])
  - c. *Strymon istapa clenchi* Austin & J. Emmel, 1998
- 492. *Strymon limenia* (Hewitson, 1868)
- 493. *Strymon serapio* (Godman & Salvin, 1887)

**TMOLUS** Hübner, [1819]

- 494. *Tmolus echion* (Linnaeus, 1767)
  - a. *Tmolus echion echion* (Draudt, 1920)

**MINISTRYMON** Clench, 1961

- 495. *Ministrymon leda* (W. H. Edwards, 1882)
- 496. *Ministrymon clytie* (W. H. Edwards, 1877)
- 497. *Ministrymon azia* (Hewitson, 1873) (1850)

**STREPHONOTA** K. Johnson, Austin, Le Crom & Salazar, 1997

- 498. *Strephonota tephraeus* (Geyer, 1837)

**OENOMAEUS** Hübner, [1819]

- 499. *Oenomaus ortygnus* (Cramer, 1779)

**PARRHASIUS** Hübner, [1819]

- 500. *Parrhasius m-album* (Boisduval & Le Conte, [1833]) (1793)

**HYPOSTRYMON** Clench, 1961

- 501. *Hypostrymon critola* (Hewitson, 1874)

**ERORA** Scudder, 1872

- 502. *Erora laeta* (W. H. Edwards, 1862)
- 503. *Erora quaderna* (Hewitson, 1868)
  - a. *Erora quaderna sanfordi* dos Passos, 1940

Subfamily **Polyommatae** Swainson, 1827Tribe **Polyommataini** Swainson, 1827**LAMPIDES** Hübner, [1819]

- 504. *Lampides boeticus* (Linnaeus, 1767)

**LEPTOTES** Scudder, 1876

- 505. *Leptotes cassius* (Cramer, 1775)
  - a. *Leptotes cassius theonus* (Lucas, 1857)
  - b. *Leptotes cassius cassidula* (Boisduval, 1870)
- 506. *Leptotes marina* (Reakirt, 1868)

**BREPHIDIUM** Scudder, 1876

- 507. *Brephidium exilis* (Boisduval, 1852)
  - a. *Brephidium exilis exilis* (Boisduval, 1852)



508. **Brephidium pseudofea** (Morrison, 1873)  
 a. **Brephidium pseudofea pseudofea** (Morrison, 1873)  
 b. **Brephidium pseudofea insularis** Pavulaan & Gatrell, 1999

**ZIZULA** Chapman, 1910

509. **Zizula cyna** (W. H. Edwards, 1881)

**CUPIDO** Schrank, 1801

Subgenus **Everes** Hübner, [1819]

510. **Cupido comyntas** (Godart, [1824])  
 a. **Cupido comyntas comyntas** (Godart, [1824])  
 b. **Cupido comyntas texana** (F. Chermock, 1945)  
 c. **Cupido comyntas sissona** (W. G. Wright, 1905)  
 511. **Cupido amyntula** (Boisduval, 1852)  
 a. **Cupido amyntula montanorum** (Austin, 1998)  
 b. **Cupido amyntula amyntula** (Boisduval, 1852)  
 c. **Cupido amyntula nesiotas** (J. Emmel & T. Emmel, 1998)  
 d. **Cupido amyntula herri** (F. Grinnell, 1901)  
 e. **Cupido amyntula valeriae** (Clench, 1944)  
 f. **Cupido amyntula albrighti** (Clench, 1944)  
 g. **Cupido amyntula maritima** (Leblanc, 1985)

**CELASTRINA** Tutt, 1906

512. **Celastrina lucia** (W. Kirby, 1837)  
 a. **Celastrina lucia lucia** (W. Kirby, 1837)  
 b. **Celastrina lucia lumarco** Scott, 2006  
 513. **Celastrina echo** (W. H. Edwards, 1864)  
 a. **Celastrina echo echo** (W. H. Edwards, 1864)  
 b. **Celastrina echo nigrescens** (J. Fletcher, 1903)  
 c. **Celastrina echo sidara** (Clench, 1944)  
 d. **Celastrina echo cinerea** (W. H. Edwards, 1883)  
 514. **Celastrina ladon** (Cramer, 1780)  
 515. **Celastrina idella** D. Wright & Pavulaan, 1999  
 516. **Celastrina serotina** Pavulaan & D. Wright, 2005  
 517. **Celastrina neglecta** (W. H. Edwards, 1862)  
 518. **Celastrina humulus** Scott & D. Wright, 1998  
 519. **Celastrina neglectamajor** Opler & Krizek, 1984  
 520. **Celastrina nigra** (W. Forbes, 1960)

**UDARA** Toxopeus, 1928

Subgenus **Vaga** Zimmerman, 1958

521. **Udara blackburni** (Tuely, 1878)

**HEMIARGUS** Hübner, 1818

522. **Hemiargus ceraunus** (Fabricius, 1793)  
 a. **Hemiargus ceraunus antububastus** Hübner, 1818  
 b. **Hemiargus ceraunus astenidas** (Lucas, 1857)  
 c. **Hemiargus ceraunus gyas** (W. H. Edwards, 1871)

**PHILOTES** Scudder, 1867

523. **Philotes sonorensis** (C. Felder & R. Felder, 1865)  
 a. **Philotes sonorensis sonorensis** (C. Felder & R. Felder, 1865)  
 b. **Philotes sonorensis extinctis** Mattoni, 1991 †

**PHILOTIELLA** Mattoni, [1978]

524. **Philotiella speciosa** (Hy. Edwards, 1877)  
 a. **Philotiella speciosa speciosa** (Hy. Edwards, 1877)  
 b. **Philotiella speciosa septentrionalis** Austin, 1998  
 c. **Philotiella speciosa bohartorum** (Tilden, [1969])  
 d. **Philotiella speciosa purissima** Priestaf & J. Emmel, 1998  
 525. **Philotiella leona** Hammond & McCorkle, 2000

**EUPHILOTES** Mattoni, [1978]

526. **Euphilotes battoides** (Behr, 1867)  
 a. **Euphilotes battoides battoides** (Behr, 1867)  
 b. **Euphilotes battoides argocyanea** Pratt & J. Emmel, 1998  
 c. **Euphilotes battoides mazourka** Pratt & J. Emmel, 1998

- d. *Euphilotes battoides panamintensis* Pratt & J. Emmel, 1998
- e. *Euphilotes battoides allyni* (Shields, 1975)
- f. *Euphilotes battoides vernalis* Pratt & J. Emmel, 1998
- g. *Euphilotes battoides fusimaculata* Austin, 1998
- h. *Euphilotes battoides anasazi* Scott, 1998
- 527. *Euphilotes glaucon* (W. H. Edwards, 1871)
  - a. *Euphilotes glaucon glaucon* (W. H. Edwards, 1871)
  - b. *Euphilotes glaucon oregonensis* (W. Barnes & McDunnough, 1917)
  - c. *Euphilotes glaucon australoglaucon* Pratt & J. Emmel, 1998
  - d. *Euphilotes glaucon comstocki* (Shields, 1975)
  - e. *Euphilotes glaucon intermedia* (W. Barnes & McDunnough, 1917)
- 528. *Euphilotes centralis* (W. Barnes & McDunnough, 1917)
  - a. *Euphilotes centralis centralis* (W. Barnes & McDunnough, 1917)
  - b. *Euphilotes centralis hadrochilus* Pratt & J. Emmel, 1998
- 529. *Euphilotes bernardino* (W. Barnes & McDunnough, 1916)
  - a. *Euphilotes bernardino bernardino* (W. Barnes & McDunnough, 1916)
  - b. *Euphilotes bernardino inyomontana* Pratt & J. Emmel, 1998
  - c. *Euphilotes bernardino minuta* Austin, 1998
  - d. *Euphilotes bernardino martini* (Mattoni, 1954)
- 530. *Euphilotes ellisii* (Shields, 1975)
  - a. *Euphilotes ellisii ellisii* (Shields, 1975)
  - b. *Euphilotes ellisii basinensis* Austin, 1998
  - c. *Euphilotes ellisii euromojavensis* Pratt & J. Emmel, 1998
  - d. *Euphilotes ellisii avawatz* Pratt & J. Emmel, 1998
- 531. *Euphilotes baueri* (Shields, 1975)
  - a. *Euphilotes baueri baueri* (Shields, 1975)
  - b. *Euphilotes baueri orientis* Austin, 1998
- 532. *Euphilotes mojave* (F. Watson & W. Comstock, 1920)
  - a. *Euphilotes mojave mojave* (F. Watson & W. Comstock, 1920)
  - b. *Euphilotes mojave virginensis* Austin, 1998
- 533. *Euphilotes enoptes* (Boisduval, 1852)
  - a. *Euphilotes enoptes enoptes* (Boisduval, 1852)
  - b. *Euphilotes enoptes aridorum* Austin, 1998
  - c. *Euphilotes enoptes bayensis* (Langston, 1964)
  - d. *Euphilotes enoptes tildeni* (Langston, 1964)
  - e. *Euphilotes enoptes arenacola* Pratt & J. Emmel, 1998
  - f. *Euphilotes enoptes smithi* (Mattoni, 1954)
  - g. *Euphilotes enoptes dammersi* (J. A. Comstock & Henne, 1933)
  - h. *Euphilotes enoptes cryptorufes* Pratt & J. Emmel, 1998
  - i. *Euphilotes enoptes opacapulla* Austin, 1998
  - j. *Euphilotes enoptes primavera* Austin, 1998
  - k. *Euphilotes enoptes langstoni* (Shields, 1975)
- 534. *Euphilotes columbiae* (Mattoni, 1954)
- 535. *Euphilotes ancilla* (W. Barnes & McDunnough, 1918)
  - a. *Euphilotes ancilla ancilla* (W. Barnes & McDunnough, 1918)
  - b. *Euphilotes ancilla giulianii* Pratt & J. Emmel, 1998
  - c. *Euphilotes ancilla gilvatunica* Austin, 1998
  - d. *Euphilotes ancilla shieldsi* Austin, 1998
  - e. *Euphilotes ancilla purpura* Austin, 1998
  - f. *Euphilotes ancilla pseudointermedia* Pratt & J. Emmel, 1998
- 536. *Euphilotes rita* (W. Barnes & McDunnough, 1916)
  - a. *Euphilotes rita rita* (W. Barnes & McDunnough, 1916)
  - b. *Euphilotes rita coloradensis* (Mattoni, [1966])
- 537. *Euphilotes pallescens* (Tilden & Downey, 1955)
  - a. *Euphilotes pallescens emmeli* (Shields, 1975)
  - b. *Euphilotes pallescens pallescens* (Tilden & Downey, 1955)
  - c. *Euphilotes pallescens mattonii* (Shields, 1975)
  - d. *Euphilotes pallescens arenamontana* Austin, 1998
  - e. *Euphilotes pallescens ricei* Austin, 1998
  - f. *Euphilotes pallescens calneva* J. Emmel & T. Emmel, 1998
  - g. *Euphilotes pallescens confusa* Pratt & J. Emmel, 1998
  - h. *Euphilotes pallescens elvirae* (Mattoni, [1966])
- 538. *Euphilotes spaldingi* (W. Barnes & McDunnough, 1917)
  - a. *Euphilotes spaldingi spaldingi* (W. Barnes & McDunnough, 1917)
  - b. *Euphilotes spaldingi pinjuna* Scott, 1981

539. *Glaucopsyche piasus* (Boisduval, 1852)
- Glaucopsyche piasus umbrosa* J. Emmel, T. Emmel & Mattoon, 1998
  - Glaucopsyche piasus sagittigera* (C. Felder & R. Felder, 1865)
  - Glaucopsyche piasus gabrielina* J. Emmel, T. Emmel & Mattoon, 1998
  - Glaucopsyche piasus excubita* J. Emmel, T. Emmel & Mattoon, 1998
  - Glaucopsyche piasus piasus* (Boisduval, 1852)
  - Glaucopsyche piasus toxsuma* F. Brown, 1971
  - Glaucopsyche piasus nevada* F. Brown, 1975
  - Glaucopsyche piasus daunia* (W. H. Edwards, 1871)
540. *Glaucopsyche lygdamus* (E. Doubleday, 1841)
- Glaucopsyche lygdamus lygdamus* (E. Doubleday, 1841)
  - Glaucopsyche lygdamus mildredae* F. Chermock, 1945
  - Glaucopsyche lygdamus couperi* Grote, 1873
  - Glaucopsyche lygdamus afra* (W. H. Edwards, [1884])
  - Glaucopsyche lygdamus jacki* D. Stallings & Turner, 1947
  - Glaucopsyche lygdamus oro* (Scudder, 1876)
  - Glaucopsyche lygdamus arizonensis* McDunnough, 1936
  - Glaucopsyche lygdamus minipunctum* Austin, 1998
  - Glaucopsyche lygdamus deserticola* Austin & J. Emmel, 1998
  - Glaucopsyche lygdamus australis* F. Grinnell, 1917
  - Glaucopsyche lygdamus palosverdesensis* E. Perkins & J. Emmel, 1977
  - Glaucopsyche lygdamus sabulosa* J. Emmel, T. Emmel & Mattoon, 1998
  - Glaucopsyche lygdamus xerces* (Boisduval, 1852) †
  - Glaucopsyche lygdamus pseudoxerces* J. Emmel & T. Emmel, 1998
  - Glaucopsyche lygdamus incognitus* Tilden 1974
  - Glaucopsyche lygdamus orcus* (W. H. Edwards, 1869)
  - Glaucopsyche lygdamus columbia* (Skinner, 1917)

#### CYCLARGUS Nabokov, 1945

541. *Cyclargus thomasi* (Clench, 1941)
- Cyclargus thomasi bethunebakeri* (W. Comstock & Huntington, 1943)
542. *Cyclargus ammon* (Lucas, 1857)

#### ECHINARGUS Nabokov, 1945

543. *Echinargus isola* (Reakirt, [1867])

#### PLEBEJUS Kluk, 1780

##### Subgenus *Lycaeides* Hübner, [1819]

544. *Plebejus idas* (Linnaeus, 1761)
- Plebejus idas empetri* T. Freeman, 1938
  - Plebejus idas aster* (W. H. Edwards, 1882)
  - Plebejus idas scudderii* (W. H. Edwards, 1861)
  - Plebejus idas nabokovi* (Masters, 1972)
  - Plebejus idas alaskensis* F. Chermock, 1945
  - Plebejus idas ferniensis* F. Chermock, 1945
  - Plebejus idas atrapraetextus* W. D. Field, 1939
  - Plebejus idas longinus* (Nabokov, 1949)
  - Plebejus idas sublivens* (Nabokov, 1949)
545. *Plebejus anna* (W. H. Edwards, 1861)
- Plebejus anna anna* (W. H. Edwards, 1861)
  - Plebejus anna ricei* Cross, 1937
  - Plebejus anna lotis* (Lintner, 1878)
  - Plebejus anna azureus* (J. Emmel, T. Emmel & Mattoon, 1998)
  - Plebejus anna vancouverensis* (C. Guppy & J. Shepard, 2001)
  - Plebejus anna benwarner* Scott, 2006
546. *Plebejus melissa* (W. H. Edwards, 1873)
- Plebejus melissa samuelis* (Nabokov, 1944)
  - Plebejus melissa melissa* (W. H. Edwards, 1873)
  - Plebejus melissa pseudosamuelis* (Nabokov, 1949)
  - Plebejus melissa annetta* (W. H. Edwards, 1882)
  - Plebejus melissa alateres* (Austin, 1998)
  - Plebejus melissa inyoensis* (Nabokov, 1949)
  - Plebejus melissa paradoxa* F. Chermock, 1945
547. *Plebejus fridayi* F. Chermock, 1945

##### Subgenus *Plebejus* Kluk, 1780

548. *Plebejus saepiolus* (Boisduval, 1852)



- a. *Plebejus saepiolus amica* (W. H. Edwards, 1863)
- b. *Plebejus saepiolus insulanus* Blackmore, 1920
- c. *Plebejus saepiolus littoralis* J. Emmel, T. Emmel & Mattoon, 1998
- d. *Plebejus saepiolus saepiolus* (Boisduval, 1852)
- e. *Plebejus saepiolus rufescens* (Boisduval, 1869)
- f. *Plebejus saepiolus aehaja* (Behr, 1867)
- g. *Plebejus saepiolus albomontanus* Austin & J. Emmel, 1998
- h. *Plebejus saepiolus aureolus* J. Emmel, T. Emmel & Mattoon, 1998
- i. *Plebejus saepiolus hilda* (J. Grinnell & F. Grinnell, 1907)
- j. *Plebejus saepiolus maculosus* Austin, 1998
- k. *Plebejus saepiolus gertschi* dos Passos, 1938
- l. *Plebejus saepiolus whitmeri* F. Brown, 1951

Subgenus *Plebulina* Nabokov, 1944

549. *Plebejus emigdionis* (F. Grinnell, 1905)

Subgenus *Icaricia* Nabokov, 1945

550. *Plebejus icarioides* (Boisduval, 1852)
- a. *Plebejus icarioides evius* (Boisduval, 1869)
  - b. *Plebejus icarioides santana* (J. Emmel, T. Emmel & Mattoon, 1998)
  - c. *Plebejus icarioides moroensis* Sternitzky, 1930
  - d. *Plebejus icarioides atascadero* (J. Emmel, T. Emmel & Mattoon, 1998)
  - e. *Plebejus icarioides pardalis* (Behr, 1867)
  - f. *Plebejus icarioides missionensis* Hovanitz, 1937
  - g. *Plebejus icarioides pheres* (Boisduval, 1852) †
  - h. *Plebejus icarioides parapheres* (J. Emmel, T. Emmel & Mattoon, 1998)
  - i. *Plebejus icarioides fenderi* Macy, 1931
  - j. *Plebejus icarioides blackmorei* W. Barnes & McDunnough, 1919
  - k. *Plebejus icarioides montis* Blackmore, 1923
  - l. *Plebejus icarioides helios* (W. H. Edwards, 1871)
  - m. *Plebejus icarioides icarioides* (Boisduval, 1852)
  - n. *Plebejus icarioides eosierra* (J. Emmel, T. Emmel & Mattoon, 1998)
  - o. *Plebejus icarioides albihalos* (J. Emmel, T. Emmel & Mattoon, 1998)
  - p. *Plebejus icarioides inyo* (J. Emmel, T. Emmel & Mattoon, 1998)
  - q. *Plebejus icarioides argusmontana* (J. Emmel, T. Emmel & Mattoon, 1998)
  - r. *Plebejus icarioides panamintina* (J. Emmel, T. Emmel & Mattoon, 1998)
  - s. *Plebejus icarioides austinorum* (J. Emmel, T. Emmel & Mattoon, 1998)
  - t. *Plebejus icarioides fulla* (W. H. Edwards, 1870)
  - u. *Plebejus icarioides pembina* (W. H. Edwards, 1862)
  - v. *Plebejus icarioides lycea* (W. H. Edwards, 1864)
  - w. *Plebejus icarioides buchholzi* dos Passos, 1938
551. *Plebejus shasta* (W. H. Edwards, 1862)
- a. *Plebejus shasta shasta* (W. H. Edwards, 1862)
  - b. *Plebejus shasta calchas* (Behr, 1867)
  - c. *Plebejus shasta pallidissima* (Austin, 1998)
  - d. *Plebejus shasta minnehaha* (Scudder, 1874)
  - e. *Plebejus shasta charlestonensis* Austin, 1980
  - f. *Plebejus shasta pitkinensis* Ferris, 1976
  - g. *Plebejus shasta platazul* Scott, 2006
552. *Plebejus acmon* (Westwood, [1851])
553. *Plebejus lupini* (Boisduval, 1869)
- a. *Plebejus lupini texanus* (Goodpasture, 1973)
  - b. *Plebejus lupini lutzi* dos Passos, 1938
  - c. *Plebejus lupini cotundra* Scott, 2006
  - d. *Plebejus lupini spangelatus* Burdick, 1942
  - e. *Plebejus lupini lupini* (Boisduval, 1869)
  - f. *Plebejus lupini alpicola* (J. Emmel, T. Emmel & Mattoon, 1998)
  - g. *Plebejus lupini dedeckera* (J. Emmel, T. Emmel & Mattoon, 1998)
  - h. *Plebejus lupini argentata* (J. Emmel, T. Emmel & Mattoon, 1998)
  - i. *Plebejus lupini goodpasturei* (Austin, 1998)
  - j. *Plebejus lupini chlorina* (Skinner, 1902)
  - k. *Plebejus lupini monticola* (Clemence, 1909)
554. *Plebejus neurona* (Skinner, 1902)

Subgenus *Albulina* Tutt, 1909

555. *Plebejus optilete* (Knoch, 1781)
- a. *Plebejus optilete yukona* (W. Holland, 1900)

Subgenus **Agriades** Hübner, [1819]

556. **Plebejus glandon** (de Prunner, 1798)
- a. **Plebejus glandon labrador** (Schmidt, Scott & Kondla, 2006)
  - b. **Plebejus glandon franklinii** (J. Curtis, 1835)
  - c. **Plebejus glandon lacustris** T. Freeman, 1939
  - d. **Plebejus glandon bryanti** Leussler, 1935
  - e. **Plebejus glandon megallo** McDunnough, 1927
  - f. **Plebejus glandon rustica** (W. H. Edwards, 1865)
  - g. **Plebejus glandon punctatus** (Austin, 1998)
  - h. **Plebejus glandon cassiope** (J. Emmel & T. Emmel, 1998)
  - i. **Plebejus glandon kelsoni** (J. Emmel & T. Emmel, 1998)
557. **Plebejus podarce** (C. Felder & R. Felder, 1865)
- a. **Plebejus podarce cilla** (Behr, 1867)
  - b. **Plebejus podarce podarce** (C. Felder & R. Felder, 1865)
  - c. **Plebejus podarce klamathensis** (J. Emmel & T. Emmel, 1998)

Family **RIODINIDAE** Grote, 1895 (1827)Subfamily **Riodininae** Grote, 1895 (1827)Tribe **Riodinini** Grote, 1895 (1827)**CALEPHELIS** Grote & Robinson, 1869

558. **Calephelis borealis** (Grote & Robinson, 1866)
559. **Calephelis muticum** McAlpine, 1937
560. **Calephelis virginiensis** (Guérin-Ménéville, [1832])
561. **Calephelis nemesis** (W. H. Edwards, 1871)
- a. **Calephelis nemesis australis** (W. H. Edwards, 1877)
  - b. **Calephelis nemesis nemesis** (W. H. Edwards, 1871)
  - c. **Calephelis nemesis dammersi** McAlpine, 1971
562. **Calephelis perditalis** W. Barnes & McDunnough, 1918
- a. **Calephelis perditalis perditalis** W. Barnes & McDunnough, 1918
563. **Calephelis wrighti** W. Holland, 1930
564. **Calephelis rawsoni** McAlpine, 1939
565. **Calephelis freemani** McAlpine, 1971
566. **Calephelis arizonensis** McAlpine, 1971

**CARIA** Hübner, 1823

567. **Caria ino** (Godman & Salvin, 1886)
- a. **Caria ino melicerta** Schaus, 1890

**LASAIA** H. Bates, 1868

568. **Lasaia maria** Clench, 1972
- a. **Lasaia maria maria** Clench, 1972
569. **Lasaia sula** Staudinger, 1888
- a. **Lasaia sula peninsularis** Clench, 1972

**MELANIS** Hübner, [1819]

570. **Melanis pixe** (Boisduval, 1836)
- a. **Melanis pixe pixe** (Boisduval, 1836)

Tribe **Emesiini** Stichel, 1911**EMESIS** [Fabricius], 1807

571. **Emesis zela** Butler, 1870
- a. **Emesis zela cleis** (W. H. Edwards, 1882)
572. **Emesis ares** (W. H. Edwards, 1882)
573. **Emesis emesia** (Hewitson, 1867)
574. **Emesis tenedia** C. Felder & R. Felder, 1861

**APODEMIA** C. Felder & R. Felder, 1865

575. **Apodemia mormo** (C. Felder & R. Felder, 1859)
- a. **Apodemia mormo mormo** (C. Felder & R. Felder, 1859)
  - b. **Apodemia mormo parva** Austin, 1998
  - c. **Apodemia mormo autumnalis** Austin, 1998
  - d. **Apodemia mormo cythera** (W. H. Edwards, 1873)

- e. *Apodemia mormo tuolumnensis* Opler & Powell, 1962
- f. *Apodemia mormo langei* J. A. Comstock, 1939
- 576. *Apodemia virgulti* (Behr, 1865)
  - a. *Apodemia virgulti peninsularis* J. Emmel, T. Emmel & Pratt, 1998
  - b. *Apodemia virgulti virgulti* (Behr, 1865)
  - c. *Apodemia virgulti arenaria* J. Emmel & T. Emmel, 1998
  - d. *Apodemia virgulti nigrescens* J. Emmel & T. Emmel, 1998
  - e. *Apodemia virgulti pratti* J. Emmel & T. Emmel, 1998
  - f. *Apodemia virgulti dialeucoides* J. Emmel, T. Emmel & Pratt, 1998
  - g. *Apodemia virgulti mojavelimbus* J. Emmel, T. Emmel & Pratt, 1998
  - h. *Apodemia virgulti davenporti* J. Emmel, T. Emmel & Pratt, 1998
- 577. *Apodemia mejicanus* (Behr, 1865)
  - a. *Apodemia mejicanus deserti* W. Barnes & McDunnough, 1918
  - b. *Apodemia mejicanus mejicanus* (Behr, 1865)
  - c. *Apodemia mejicanus pueblo* Scott, 1998
- 578. *Apodemia duryi* (W. H. Edwards, 1882)
- 579. *Apodemia palmerii* (W. H. Edwards, 1870)
  - a. *Apodemia palmerii palmerii* (W. H. Edwards, 1870)
  - b. *Apodemia palmerii arizona* Austin, [1989]
- 580. *Apodemia hepburni* Godman & Salvin, 1886
  - a. *Apodemia hepburni hepburni* Godman & Salvin, 1886
- 581. *Apodemia walkeri* Godman & Salvin, 1886
- 582. *Apodemia multiplaga* Schaus, 1902
- 583. *Apodemia phyciodoides* W. Barnes & Benjamin, 1924 †
- 584. *Apodemia nais* (W. H. Edwards, 1877)
- 585. *Apodemia chisosensis* H. Freeman, 1964

## Family NYMPHALIDAE Rafinesque, 1815

### Subfamily Libytheinae Boisduval, 1833

#### LIBYTHEANA Michener, 1943

- 586. *Libytheana carinenta* (Cramer, 1777)
  - a. *Libytheana carinenta mexicana* Michener, 1943
  - b. *Libytheana carinenta streckeri* Austin & J. Emmel, 1998
  - c. *Libytheana carinenta larvata* (Strecker, [1878])
  - d. *Libytheana carinenta bachmanii* (Kirtland, 1851)
- 587. *Libytheana motya* (Hübner, [1823])

### Subfamily Danainae Boisduval, [1833]

#### Tribe Danaini Boisduval, [1833]

#### Subtribe Danaina Boisduval, [1833]

#### DANAUS Kluk, 1780

##### Subgenus Danaus Kluk, 1780

- 588. *Danaus plexippus* (Linnaeus, 1758)
  - a. *Danaus plexippus plexippus* (Linnaeus, 1758)

##### Subgenus Anosia Hübner, 1816

- 589. *Danaus gilippus* (Cramer, 1775)
  - a. *Danaus gilippus berenice* (Cramer, 1779)
  - b. *Danaus gilippus thersippus* (H. Bates, 1863)
- 590. *Danaus eresimus* (Cramer, 1777)
  - a. *Danaus eresimus montezuma* Talbot, 1943
  - b. *Danaus eresimus tethys* W. Forbes, [1944]

#### Subtribe Itunina Reuter, 1896

#### LYCOREA E. Doubleday, [1847]

- 591. *Lycorea halia* Hübner, 1816
  - a. *Lycorea halia demeter* C. Felder & R. Felder, 1865
  - b. *Lycorea halia atergatis* E. Doubleday, [1847]

#### Tribe Ithomiini Godman & Salvin, 1879 (1878)



Subtribe **Dircennina** d'Almeida, 1941

**DIRCENNA** E. Doubleday, [1847]

592. **Dircenna klugii** (Geyer, 1837)

Subfamily **Limenitidinae** Behr, 1864

Tribe **Limenitidini** Behr, 1864

Subtribe **Limenitidina** Behr, 1864

**LIMENITIS** [Fabricius], 1807

593. **Limenitis arthemis** (Drury, 1773)

- a. **Limenitis arthemis rubrofasciata** (W. Barnes & McDunnough, 1916)
- b. **Limenitis arthemis arthemis** (Drury, 1773)
- c. **Limenitis arthemis astyanax** (Fabricius, 1775)
- d. **Limenitis arthemis arizonensis** W. H. Edwards, 1882

594. **Limenitis weidemeyerii** W. H. Edwards, 1861

- a. **Limenitis weidemeyerii weidemeyerii** W. H. Edwards, 1861
- b. **Limenitis weidemeyerii oberfoelli** F. Brown, 1960
- c. **Limenitis weidemeyerii latifascia** S. Perkins & E. Perkins, 1967
- d. **Limenitis weidemeyerii nevadae** (W. Barnes & Benjamin, 1924)
- e. **Limenitis weidemeyerii angustifascia** (W. Barnes & McDunnough, 1912)
- f. **Limenitis weidemeyerii siennafascia** Austin & Mullins, 1984

595. **Limenitis lorquini** Boisduval, 1852

- a. **Limenitis lorquini powelli** Austin & J. Emmel, 1998
- b. **Limenitis lorquini pallidafacies** Austin & J. Emmel, 1998
- c. **Limenitis lorquini lorquini** Boisduval, 1852
- d. **Limenitis lorquini ilgae** C. Guppy, 2001
- e. **Limenitis lorquini burrissoni** Maynard, 1891

596. **Limenitis archippus** (Cramer, 1775)

- a. **Limenitis archippus floridensis** Strecker, 1878
- b. **Limenitis archippus watsoni** (dos Passos, 1938)
- c. **Limenitis archippus archippus** (Cramer, 1775)
- d. **Limenitis archippus idaho** Austin, 1998
- e. **Limenitis archippus lahontani** Herlan, 1971
- f. **Limenitis archippus obsoleta** W. H. Edwards, 1882
- g. **Limenitis archippus hoffmanni** R. Chermock, 1947

**ADELPHA** Hübner, [1819]

597. **Adelpha fessonia** (Hewitson, 1847)

- a. **Adelpha fessonia fessonia** (Hewitson, 1847)

598. **Adelpha basiloides** H. Bates, 1865

599. **Adelpha eulalia** (E. Doubleday, [1848])

600. **Adelpha californica** (Butler, 1865)

Subfamily **Heliconiinae** Swainson, 1822

Tribe **Heliconiini** Swainson, 1822

Subtribe **Heliconiina** Swainson, 1822

**DIONE** Hübner, [1819]

601. **Dione moneta** Hübner, [1825]

- a. **Dione moneta poeyi** Butler, 1873

**AGRAULIS** Boisduval & Le Conte, [1835]

602. **Agraulis vanillae** (Linnaeus, 1758)

- a. **Agraulis vanillae nigrior** Michener, 1942
- b. **Agraulis vanillae incarnata** (N. Riley, 1926)

**DRYAS** Hübner, [1807]

603. **Dryas iulia** (Fabricius, 1775)

- a. **Dryas iulia largo** Clench, 1975
- b. **Dryas iulia moderata** (N. Riley, 1926)

**DRYADULA** Michener, 1942

604. **Dryadula phaetusa** (Linnaeus, 1758)

**EUEIDES** Hübner, 1816

605. **Eueides isabella** (Stoll, 1781)  
 a. **Eueides isabella eva** (Fabricius, 1793)

**HELICONIUS** Kluk, 1780

606. **Heliconius charithonia** (Linnaeus, 1767)  
 a. **Heliconius charithonia tuckeri** W. Comstock & F. Brown, 1950  
 b. **Heliconius charithonia vazquezae** W. Comstock & F. Brown, 1950  
 607. **Heliconius erato** (Linnaeus, 1758)  
 a. **Heliconius erato petiverana** (E. Doubleday, 1847)

Tribe **Argynnini** Swainson, 1833

Subtribe **Euptoietina** Simonsen, 2006

**EUPTOIETA** E. Doubleday, 1848

608. **Euptoieta claudia** (Cramer, 1775)  
 609. **Euptoieta hegesia** (Cramer, 1779)  
 a. **Euptoieta hegesia meridiania** Stichel, 1938

Subtribe **Boloriina** B. Warren, dos Passos & Grey, 1946

**BOLORIA** Moore, 1900

Subgenus **Boloria** Moore, 1900

610. **Boloria alaskensis** (W. Holland, 1900)  
 a. **Boloria alaskensis alaskensis** (W. Holland, 1900)  
 b. **Boloria alaskensis halli** Klots, 1940  
 611. **Boloria eunomia** (Esper, 1800)  
 a. **Boloria eunomia tricularis** (Hübner, [1821])  
 b. **Boloria eunomia dawsoni** (W. Barnes & McDunnough, 1916)  
 c. **Boloria eunomia nichollae** (W. Barnes & Benjamin, 1926)  
 d. **Boloria eunomia denali** (Klots, 1940)  
 e. **Boloria eunomia ursadentis** Ferris & Groothuis, 1971  
 f. **Boloria eunomia laddi** (Klots, 1940)  
 g. **Boloria eunomia caelestis** (Hemming, 1933)

Subgenus **Clossiana** Reuss, 1920

612. **Boloria selene** ([Schifferrmüller], 1775)  
 a. **Boloria selene myrina** (Cramer, 1777)  
 b. **Boloria selene nebraskensis** (W. Holland, 1928)  
 c. **Boloria selene sabulocollis** Kohler, 1977  
 d. **Boloria selene tollandensis** (W. Barnes & Benjamin, 1925)  
 e. **Boloria selene albequina** (W. Holland, 1928)  
 f. **Boloria selene atrocostalis** (Huard, 1927)  
 g. **Boloria selene terraenovae** (W. Holland, 1928) (emended)  
 613. **Boloria bellona** (Fabricius, 1775)  
 a. **Boloria bellona bellona** (Fabricius, 1775)  
 b. **Boloria bellona toddi** (W. Holland, 1928)  
 c. **Boloria bellona jenistai** D. Stallings & Turner, 1947  
 614. **Boloria frigga** (Thunberg, 1791)  
 a. **Boloria frigga saga** (Staudinger, 1861)  
 b. **Boloria frigga gibsoni** (W. Barnes & McDunnough, 1926)  
 c. **Boloria frigga sagata** (W. Barnes & Benjamin, 1923)  
 615. **Boloria improba** (Butler, 1877)  
 a. **Boloria improba improba** (Butler, 1877)  
 b. **Boloria improba youngi** (W. Holland, 1900)  
 c. **Boloria improba nunatak** Scott, 1998  
 d. **Boloria improba harryi** (Ferris, 1984)  
 e. **Boloria improba acrocneuma** Gall & Sperling, 1980  
 616. **Boloria kriemhild** (Strecker, 1879)  
 617. **Boloria epithore** (W. H. Edwards, 1864)  
 a. **Boloria epithore epithore** (W. H. Edwards, 1864)  
 b. **Boloria epithore sierra** E. Perkins, 1973  
 c. **Boloria epithore chermocki** E. Perkins & S. Perkins, 1966  
 d. **Boloria epithore sigridae** (J. Shepard, 2001)

- 618. *Boloria polaris* (Boisduval, [1828])
  - a. *Boloria polaris polaris* (Boisduval, [1828])
  - b. *Boloria polaris stellata* Masters, 1972
- 619. *Boloria alberta* (W. H. Edwards, 1890)
- 620. *Boloria astarte* (E. Doubleday, [1847])
  - a. *Boloria astarte astarte* (E. Doubleday, [1847])
  - b. *Boloria astarte distincta* (Gibson, 1920)
  - c. *Boloria astarte tschukotkensis* Wyatt, 1961
- 621. *Boloria freija* (Thunberg, 1791)
  - a. *Boloria freija freija* (Thunberg, 1791)
  - b. *Boloria freija tarquinius* (J. Curtis, 1835)
  - c. *Boloria freija browni* (Higgins, 1953)
- 622. *Boloria natazhati* (Gibson, 1920)
  - a. *Boloria natazhati natazhati* (Gibson, 1920)
  - b. *Boloria natazhati nabokovi* D. Stallings & Turner, 1947
  - c. *Boloria natazhati bankslandia* J. Shepard, 1998
- 623. *Boloria chariclea* (Schneider, 1794)
  - a. *Boloria chariclea montinus* (Scudder, 1863)
  - b. *Boloria chariclea boisduvalii* (Duponchel, [1832])
  - c. *Boloria chariclea arctica* (Zetterstedt, [1839])
  - d. *Boloria chariclea grandis* (W. Barnes & Benjamin, 1916)
  - e. *Boloria chariclea butleri* (W. H. Edwards, 1883)
  - f. *Boloria chariclea rainieri* (W. Barnes & McDunnough, 1913)
  - g. *Boloria chariclea ingens* (W. Barnes & McDunnough, 1918)
  - h. *Boloria chariclea helena* (W. H. Edwards, 1871)

Subtribe *Argynnina* Swainson, 1833

**SPEYERIA** Scudder, 1872

- 624. *Speyeria diana* (Cramer, 1777)
- 625. *Speyeria cybele* (Fabricius, 1775)
  - a. *Speyeria cybele cybele* (Fabricius, 1775)
  - b. *Speyeria cybele novascotiae* (McDunnough, 1935)
  - c. *Speyeria cybele krautwurmi* (W. Holland, 1931)
  - d. *Speyeria cybele pseudocarpenteri* (F. Chermock & R. Chermock, 1940)
  - e. *Speyeria cybele carpenteri* (W. H. Edwards, 1876)
  - f. *Speyeria cybele charlottii* (W. Barnes, 1897)
  - g. *Speyeria cybele letona* dos Passos & Grey, 1945
  - h. *Speyeria cybele leto* (Behr, 1862)
  - i. *Speyeria cybele pugetensis* F. Chermock & Frechin, 1947
  - j. *Speyeria cybele eileenae* J. Emmel, T. Emmel & Mattoon, 1998
- 626. *Speyeria aphrodite* (Fabricius, 1787)
  - a. *Speyeria aphrodite cullasaja* Gatrell, 1998
  - b. *Speyeria aphrodite aphrodite* (Fabricius, 1787)
  - c. *Speyeria aphrodite alcestis* (W. H. Edwards, [1877])
  - d. *Speyeria aphrodite ethne* (Hemming, 1933)
  - e. *Speyeria aphrodite byblis* (W. Barnes & Benjamin, 1926)
  - f. *Speyeria aphrodite columbia* (Hy. Edwards, 1877)
  - g. *Speyeria aphrodite whitehousei* (Gunder, 1932)
  - h. *Speyeria aphrodite manitoba* (F. Chermock & R. Chermock, 1940)
  - i. *Speyeria aphrodite winni* (Gunder, 1932)
- 627. *Speyeria idalia* (Drury, 1773)
  - a. *Speyeria idalia idalia* (Drury, 1773)
  - b. *Speyeria idalia occidentalis* B. Williams, 2002
- 628. *Speyeria nokomis* (W. H. Edwards, 1862)
  - a. *Speyeria nokomis coerulescens* (W. Holland, 1900) †
  - b. *Speyeria nokomis nitocris* (W. H. Edwards, 1874)
  - c. *Speyeria nokomis nokomis* (W. H. Edwards, 1862)
  - d. *Speyeria nokomis apacheana* (Skinner, 1918)
  - e. *Speyeria nokomis carsonensis* Austin, 1998
- 629. *Speyeria edwardsii* (Reakirt, 1866)
- 630. *Speyeria coronis* (Behr, 1864)
  - a. *Speyeria coronis semiramis* (W. H. Edwards, 1886)
  - b. *Speyeria coronis hennei* (Gunder, 1934)
  - c. *Speyeria coronis coronis* (Behr, 1864)
  - d. *Speyeria coronis simaetha* dos Passos & Grey, 1945
  - e. *Speyeria coronis snyderi* (Skinner, 1897)



- f. *Speyeria coronis halcyone* (W. H. Edwards, [1869])
- 631. *Speyeria carolae* (dos Passos & Grey, 1942)
- 632. *Speyeria zerene* (Boisduval, 1852)
  - a. *Speyeria zerene sitka* Hammond, Harry & McCorkle, 2001
  - b. *Speyeria zerene bremnerii* (W. H. Edwards, 1872)
  - c. *Speyeria zerene hippolyta* (W. H. Edwards, 1879)
  - d. *Speyeria zerene gloriosa* Moeck, 1957
  - e. *Speyeria zerene behrensii* (W. H. Edwards, 1869)
  - f. *Speyeria zerene sonomensis* J. Emmel, T. Emmel & Mattoon, 1998
  - g. *Speyeria zerene puntareyes* J. Emmel & T. Emmel, 1998
  - h. *Speyeria zerene myrtleae* dos Passos & Grey, 1945 †
  - i. *Speyeria zerene monticola* (Behr, 1863)
  - j. *Speyeria zerene malcolmi* (J. A. Comstock, 1920)
  - k. *Speyeria zerene zerene* (Boisduval, 1852)
  - l. *Speyeria zerene gunderi* (J. A. Comstock, 1925)
  - m. *Speyeria zerene picta* (McDunnough, 1924)
  - n. *Speyeria zerene platina* (Skinner, 1897)
  - o. *Speyeria zerene sinope* dos Passos & Grey, 1945
- 633. *Speyeria callippe* (Boisduval, 1852)
  - a. *Speyeria callippe adiateoides* J. Emmel, T. Emmel & Mattoon, 1998
  - b. *Speyeria callippe liliana* (Hy. Edwards, 1877)
  - c. *Speyeria callippe callippe* (Boisduval, 1852)
  - d. *Speyeria callippe comstocki* (Gunder, 1925)
  - e. *Speyeria callippe macaria* (W. H. Edwards, 1877)
  - f. *Speyeria callippe laurina* (W. G. Wright, 1905)
  - g. *Speyeria callippe rupestris* (Behr, 1863)
  - h. *Speyeria callippe inornata* (W. H. Edwards, 1872)
  - i. *Speyeria callippe juba* (Boisduval, 1969)
  - j. *Speyeria callippe hagemani* J. Emmel, T. Emmel & Mattoon, 1998
  - k. *Speyeria callippe shasta* J. Emmel, T. Emmel & Mattoon, 1998
  - l. *Speyeria callippe claine* dos Passos & Grey, 1945
  - m. *Speyeria callippe semivirida* (McDunnough, 1924)
  - n. *Speyeria callippe chilcotensis* C. Guppy & J. Shepard, 2001
  - o. *Speyeria callippe nevadensis* (W. H. Edwards, 1870)
  - p. *Speyeria callippe harmonia* dos Passos & Grey, 1945
  - q. *Speyeria callippe calgariana* (McDunnough, 1924)
  - r. *Speyeria callippe gallatini* (McDunnough, 1929)
  - s. *Speyeria callippe meadii* (W. H. Edwards, 1872)
- 634. *Speyeria egleis* (Behr, 1862)
  - a. *Speyeria egleis tehachapina* (J. A. Comstock, 1920)
  - b. *Speyeria egleis egleis* (Behr, 1862)
  - c. *Speyeria egleis oweni* (W. H. Edwards, 1892)
  - d. *Speyeria egleis mattooni* J. Emmel & T. Emmel, 1998
  - e. *Speyeria egleis yolaboli* J. Emmel & T. Emmel, 1998
  - f. *Speyeria egleis moeckii* Hammond & Dornfeld, 1983
  - g. *Speyeria egleis toiyabe* Howe, 1975
  - h. *Speyeria egleis reidi* Austin, 1998
  - i. *Speyeria egleis linda* (dos Passos & Grey, 1942)
  - j. *Speyeria egleis utahensis* (Skinner, 1919)
  - k. *Speyeria egleis secreta* dos Passos & Grey, 1945
  - l. *Speyeria egleis macdunnoughi* (Gunder, 1932)
  - m. *Speyeria egleis albrighti* (Gunder, 1932)
- 635. *Speyeria adiate* (W. H. Edwards, 1864)
  - a. *Speyeria adiate adiate* (W. H. Edwards, 1864)
  - b. *Speyeria adiate clemencei* (J. A. Comstock, 1925)
  - c. *Speyeria adiate atossa* (W. H. Edwards, 1890) †
- 636. *Speyeria atlantis* (W. H. Edwards, 1862)
  - a. *Speyeria atlantis atlantis* (W. H. Edwards, 1862)
  - b. *Speyeria atlantis canadensis* (dos Passos, 1935)
  - c. *Speyeria atlantis hollandi* (F. Chermock & R. Chermock, 1940)
  - d. *Speyeria atlantis pahasapa* Spomer, Scott & Kondla, 1998
  - e. *Speyeria atlantis sorocko* Scott, Kondla & Spomer, 1998
- 637. *Speyeria hesperis* (W. H. Edwards, 1864)
  - a. *Speyeria hesperis irene* (Boisduval, 1869)
  - b. *Speyeria hesperis hanseni* J. Emmel, T. Emmel & Mattoon, 1998
  - c. *Speyeria hesperis cottlei* (J. A. Comstock, 1925)
  - d. *Speyeria hesperis dodgei* (Gunder, 1931)

- e. *Speyeria hesperis elko* Austin, 1984
- f. *Speyeria hesperis greyi* Moeck, 1950
- g. *Speyeria hesperis chitone* (W. H. Edwards, 1879)
- h. *Speyeria hesperis schellbachi* Garth, 1949
- i. *Speyeria hesperis tetonia* dos Passos & Grey, 1945
- j. *Speyeria hesperis viola* dos Passos & Grey, 1945
- k. *Speyeria hesperis hutchinsi* dos Passos & Grey, 1947
- l. *Speyeria hesperis brico* Kondla, Scott & Spomer, 1998
- m. *Speyeria hesperis beani* (W. Barnes & Benjamin, 1926)
- n. *Speyeria hesperis helena* dos Passos & Grey, 1957
- o. *Speyeria hesperis lurana* dos Passos & Grey, 1945
- p. *Speyeria hesperis hesperis* (W. H. Edwards, 1864)
- q. *Speyeria hesperis ratonensis* Scott, 1981
- r. *Speyeria hesperis electa* (W. H. Edwards, 1878)
- s. *Speyeria hesperis dorothea* Moeck, 1947
- t. *Speyeria hesperis capitaneensis* R. Holland, 1988
- u. *Speyeria hesperis nausicaa* (W. H. Edwards, 1874)
- 638. *Speyeria hydaspe* (Boisduval, 1869)
  - a. *Speyeria hydaspe viridicornis* (J. A. Comstock, 1925)
  - b. *Speyeria hydaspe hydaspe* (Boisduval, 1869)
  - c. *Speyeria hydaspe tehama* J. Emmel, T. Emmel & Mattoon, 1998
  - d. *Speyeria hydaspe davisii* J. Emmel, T. Emmel & Mattoon, 1998
  - e. *Speyeria hydaspe rhodope* (W. H. Edwards, 1877)
  - f. *Speyeria hydaspe minor* dos Passos & Grey, 1947
- 639. *Speyeria mormonia* (Boisduval, 1869)
  - a. *Speyeria mormonia bischoffi* (W. H. Edwards, 1870)
  - b. *Speyeria mormonia opis* (W. H. Edwards, 1874)
  - c. *Speyeria mormonia washingtonia* (W. Barnes & McDunnough, 1913)
  - d. *Speyeria mormonia erinna* (W. H. Edwards, 1883)
  - e. *Speyeria mormonia eurynome* (W. H. Edwards, 1872)
  - f. *Speyeria mormonia mormonia* (Boisduval, 1869)
  - g. *Speyeria mormonia obsidiana* J. Emmel, T. Emmel & Mattoon, 1998
  - h. *Speyeria mormonia artonis* (W. H. Edwards, 1881)
  - i. *Speyeria mormonia luskii* (W. Barnes & McDunnough, 1913)

Subfamily **Apaturinae** Boisduval, 1840

**ASTEROCAMPA** Röber, 1916

- 640. *Asterocampa celtis* (Boisduval & Le Conte, [1835])
  - a. *Asterocampa celtis reinthali* Friedlander, 1988
  - b. *Asterocampa celtis celtis* (Boisduval & Le Conte, [1835])
  - c. *Asterocampa celtis antonia* (W. H. Edwards, [1878])
- 641. *Asterocampa leilia* (W. H. Edwards, 1874)
- 642. *Asterocampa clyton* (Boisduval & Le Conte, [1835])
  - a. *Asterocampa clyton flora* (W. H. Edwards, 1876)
  - b. *Asterocampa clyton clyton* (Boisduval & Le Conte, [1835])
  - c. *Asterocampa clyton texana* (Skinner, 1911)
  - d. *Asterocampa clyton louisa* D. Stallings & Turner, 1947
- 643. *Asterocampa idyja* (Geyer, [1828])
  - a. *Asterocampa idyja argus* (H. Bates, 1864)

**DOXOCOPA** Hübner, [1819]

- 644. *Doxocopa pavon* (Latreille, [1809])
  - a. *Doxocopa pavon theodora* (Lucas, 1857)
- 645. *Doxocopa laure* (Drury, 1773)
  - a. *Doxocopa laure laure* (Drury, 1773)

Subfamily **Biblidinae** Boisduval, 1833

Tribe **Biblidini** Boisduval, 1833

**BIBLIS** [Fabricius], 1807

- 646. *Biblis hyperia* (Cramer, 1779)
  - a. *Biblis hyperia aganisa* Boisduval, 1836

Tribe **Eurytelini** E. Doubleday, 1845

**MESTRA** Hübner, [1825]

647. *Mestra amymone* (Ménétriés, 1857)

Tribe **Catonephelini** d'Almeida, 1932 (1865)

**EUNICA** Hübner, [1819]

648. *Eunica monima* (Stoll, 1782)  
 649. *Eunica tatila* (Herrich-Schäffer, [1855])  
   a. *Eunica tatila tatila* (Herrich-Schäffer, [1855])  
   b. *Eunica tatila tatilista* Kaye, 1926

**MYSCELIA** E. Doubleday, 1845

650. *Myscelia ethusa* (Doyère, [1840])  
   a. *Myscelia ethusa ethusa* (Doyère, [1840])  
 651. *Myscelia cyananthe* (C. Felder & R. Felder, 1867)  
   a. *Myscelia cyananthe skinneri* Mengel, 1894

Tribe **Ageroniini** E. Doubleday, 1847

**HAMADRYAS** Hübner, [1806]

652. *Hamadryas februa* (Hübner, [1823])  
   a. *Hamadryas februa ferentina* (Godart, [1824])  
 653. *Hamadryas amphichloe* (Boisduval, 1870)  
   a. *Hamadryas amphichloe diasia* (Fruhstorfer, 1916)  
 654. *Hamadryas glauconome* (H. Bates, 1864)  
   a. *Hamadryas glauconome grisea* Jenkins, 1983  
 655. *Hamadryas atlantis* (H. Bates, 1864)  
   a. *Hamadryas atlantis lelaps* (Godman & Salvin, 1883)  
 656. *Hamadryas feronia* (Linnaeus, 1758)  
   a. *Hamadryas feronia farinulenta* (Fruhstorfer, 1916)  
 657. *Hamadryas guatemalena* (H. Bates, 1864)  
   a. *Hamadryas guatemalena marmarice* (Fruhstorfer, 1916)  
 658. *Hamadryas iphthime* (H. Bates, 1864)  
   a. *Hamadryas iphthime joannae* Jenkins, 1983  
 659. *Hamadryas amphinome* (Linnaeus, 1767)  
   a. *Hamadryas amphinome mexicana* (Lucas, 1853)

Tribe **Epiphelini** Jenkins, 1987

**TEMENIS** Hübner, [1819]

660. *Temenis laothoe* (Cramer, 1777)  
   a. *Temenis laothoe hondurensis* Fruhstorfer, 1907

**EPIPHILE** E. Doubleday, [1845]

661. *Epiphile adrasta* Hewitson, 1861  
   a. *Epiphile adrasta adrasta* Hewitson, 1861

Tribe **Eubagini** Burmeister, 1878

**DYNAMINE** Hübner, [1819]

662. *Dynamine postverta* (Cramer, 1779)  
   a. *Dynamine postverta mexicana* d'Almeida, 1952  
 663. *Dynamine dyonis* Geyer, 1837

Subfamily **Cyrestinae** Guenée, 1865

**MARPESIA** Hübner, 1818

664. *Marpesia zerynthia* Hübner, [1823]  
   a. *Marpesia zerynthia dentigera* (Fruhstorfer, 1907)  
 665. *Marpesia chiron* (Fabricius, 1775)  
 666. *Marpesia petreus* (Cramer, 1776)  
   a. *Marpesia petreus petreus* (Cramer, 1776)  
 667. *Marpesia eleuchea* Hübner, 1818  
   a. *Marpesia eleuchea eleuchea* Hübner, 1818

Subfamily **Nymphalinae** Rafinesque, 1815



Tribe **Cocini** Scudder, 1893**HISTORIS** Hübner, [1819]

- 668. **Historis odius** (Fabricius, 1775)
  - a. **Historis odius odius** (Fabricius, 1775)
  - b. **Historis odius dious** Lamas, 1995
- 669. **Historis acheronta** (Fabricius, 1775)
  - a. **Historis acheronta acheronta** (Fabricius, 1775)

Tribe **Nymphalini** Rafinesque, 1815**SMYRNA** Hübner, [1823]

- 670. **Smyrna blomfieldia** (Fabricius, 1781)
  - a. **Smyrna blomfieldia datis** Fruhstorfer, 1908

**HYPANARTIA** Hübner, [1821]

- 671. **Hypanartia lethe** (Fabricius, 1793)

**VANESSA** [Fabricius], 1807

- 672. **Vanessa virginiensis** (Drury, 1773)
- 673. **Vanessa cardui** (Linnaeus, 1758)
- 674. **Vanessa annabella** (W. D. Field, 1971)
- 675. **Vanessa atalanta** (Linnaeus, 1758)
  - a. **Vanessa atalanta rubria** (Fruhstorfer, 1909)
- 676. **Vanessa tameamea** Escholtz, 1821

**AGLAIS** Dalman, 1816

- 677. **Aglais milberti** (Godart, 1819)
  - a. **Aglais milberti viola** dos Passos, 1938
  - b. **Aglais milberti milberti** (Godart, 1819)
  - c. **Aglais milberti subpallida** (Cockerell, 1889)
  - d. **Aglais milberti pullum** (Austin, 1998)

**NYMPHALIS** Kluk, 1780

- 678. **Nymphalis l-album** (Esper, 1781)
  - a. **Nymphalis l-album j-album** (Boisduval & Le Conte, [1835])
  - b. **Nymphalis l-album watsoni** (G. Hall, 1924)
- 679. **Nymphalis californica** (Boisduval, 1852)
- 680. **Nymphalis antiopa** (Linnaeus, 1758)
  - a. **Nymphalis antiopa antiopa** (Linnaeus, 1758)

**POLYGONIA** Hübner, [1819]

- 681. **Polygonia interrogationis** (Fabricius, 1798)
- 682. **Polygonia comma** (T. Harris, 1842)
- 683. **Polygonia satyrus** (W. H. Edwards, 1869)
  - a. **Polygonia satyrus satyrus** (W. H. Edwards, 1869)
  - b. **Polygonia satyrus neomarsyas** dos Passos, 1969
- 684. **Polygonia progne** (Cramer, 1775)
- 685. **Polygonia oreas** (W. H. Edwards, 1869)
  - a. **Polygonia oreas oreas** (W. H. Edwards, 1869)
  - b. **Polygonia oreas silenus** (W. H. Edwards, 1870)
  - c. **Polygonia oreas threatfuli** C. Guppy & J. Shepard, 2001
  - d. **Polygonia oreas satellow** Scott, 2006
  - e. **Polygonia oreas nigrozephyrus** Scott, 1984
- 686. **Polygonia gracilis** (Grote & Robinson, 1867)
  - a. **Polygonia gracilis gracilis** (Grote & Robinson, 1867)
  - b. **Polygonia gracilis zephyrus** (W. H. Edwards, 1870)
- 687. **Polygonia faunus** (W. H. Edwards, 1862)
  - a. **Polygonia faunus smythi** A. Clark, 1937
  - b. **Polygonia faunus faunus** (W. H. Edwards, 1862)
  - c. **Polygonia faunus arcticus** Leussler, 1935
  - d. **Polygonia faunus rusticus** (W. H. Edwards, 1874)
  - e. **Polygonia faunus fulvescens** J. Emmel, T. Emmel & Mattoon, 1998
  - f. **Polygonia faunus hylas** (W. H. Edwards, 1872)

Tribe **Victorinini** Scudder, 1893

**ANARTIA** Hübner, [1819]

688. *Anartia jatrophae* (Linnaeus, 1763)  
 a. *Anartia jatrophae guantanamo* Munroe, 1942  
 b. *Anartia jatrophae luteipicta* Fruhstorfer, 1907  
 689. *Anartia fatima* (Fabricius, 1793)  
 a. *Anartia fatima fatima* (Fabricius, 1793)  
 690. *Anartia chrysopelea* Hübner, [1831]

**SIPROETA** Hübner, [1823]

691. *Siproeta stelenes* (Linnaeus, 1758)  
 a. *Siproeta stelenes biplagiata* (Fruhstorfer, 1907)  
 692. *Siproeta epaphus* (Latreille, 1813)  
 a. *Siproeta epaphus epaphus* (Latreille, 1813)

Tribe **Junoniini** Reuter, 1896**JUNONIA** Hübner, [1819]

693. *Junonia coenia* Hübner, [1822]  
 a. *Junonia coenia coenia* Hübner, [1822]  
 b. *Junonia coenia grisea* Austin & J. Emmel, 1998  
 694. *Junonia evarete* (Cramer, 1779)  
 a. *Junonia evarete zonalis* C. Felder & R. Felder, [1867]  
 b. *Junonia evarete nigrosuffusa* W. Barnes & McDunnough, 1916  
 695. *Junonia genoveva* (Cramer, 1780)

**HYPOLIMNAS** Hübner, [1819]

696. *Hypolimnas misippus* (Linnaeus, 1764)

Tribe **Melitaeini** Newman, [1870]Subtribe **Euphydryina** Higgins, 1976**EUPHYDRYAS** Scudder, 1872Subgenus **Hypodryas** Higgins, 1978

697. *Euphydryas gillettii* (W. Barnes, 1897)

Subgenus **Euphydryas** Scudder, 1872

698. *Euphydryas editha* (Boisduval, 1852)  
 a. *Euphydryas editha taylori* (W. H. Edwards, 1888)  
 b. *Euphydryas editha editha* (Boisduval, 1852)  
 c. *Euphydryas editha insularis* T. Emmel & J. Emmel, 1974  
 d. *Euphydryas editha augustina* (W. G. Wright, 1905)  
 e. *Euphydryas editha quino* (Behr, 1863)  
 f. *Euphydryas editha ehrlichi* Baughman & Murphy, 1998  
 g. *Euphydryas editha nubigena* (Behr, 1863)  
 h. *Euphydryas editha tahoensis* Austin & Murphy, 1998  
 i. *Euphydryas editha aurilacus* Gunder, 1928  
 j. *Euphydryas editha lawrencei* Gunder, 1931  
 k. *Euphydryas editha colonia* (W. G. Wright, 1905)  
 l. *Euphydryas editha rubicunda* (H. Edwards, 1881)  
 m. *Euphydryas editha baroni* (W. H. Edwards, 1879)  
 n. *Euphydryas editha karinae* Baughman & Murphy, 1998  
 o. *Euphydryas editha luestherae* Murphy & P. Ehrlich, 1981  
 p. *Euphydryas editha monoensis* Gunder, 1928  
 q. *Euphydryas editha edithana* (Strand, 1915)  
 r. *Euphydryas editha bingi* Baughman & Murphy, 1998  
 s. *Euphydryas editha mattooni* Austin & Murphy, 1998  
 t. *Euphydryas editha owyheensis* Austin & Murphy, 1998  
 u. *Euphydryas editha lehmani* Gunder, 1929  
 v. *Euphydryas editha gunnisonensis* F. Brown, [1971]  
 w. *Euphydryas editha alebarki* Ferris, [1971]  
 x. *Euphydryas editha montanus* McDunnough, 1928  
 y. *Euphydryas editha hutchinsi* McDunnough, 1928  
 z. *Euphydryas editha beani* (Skinner, 1897)  
 699. *Euphydryas chalcedona* (E. Doubleday, [1847])  
 a. *Euphydryas chalcedona klotsi* dos Passos, 1938  
 b. *Euphydryas chalcedona kingstonensis* T. Emmel & J. Emmel, 1973

- c. *Euphydryas chalcedona corralensis* T. Emmel & J. Emmel, 1973
- d. *Euphydryas chalcedona hennei* Scott, 1981
- e. *Euphydryas chalcedona sierra* (W. G. Wright, 1905)
- f. *Euphydryas chalcedona dwinellei* (Hy. Edwards, 1881)
- g. *Euphydryas chalcedona olancha* (W. G. Wright, 1905)
- h. *Euphydryas chalcedona macglashanii* (Rivers, 1888)
- i. *Euphydryas chalcedona trinitina* Baughman & Murphy, 1998
- j. *Euphydryas chalcedona chalcedona* (E. Doubleday, [1847])
- 700. *Euphydryas colon* (W. H. Edwards, 1881)
  - a. *Euphydryas colon sperryi* F. Chermock & R. Chermock, 1945
  - b. *Euphydryas colon colon* (W. H. Edwards, 1881)
  - c. *Euphydryas colon svilhae* Pelham, 2008
  - d. *Euphydryas colon wallacensis* Gunder, 1928
  - e. *Euphydryas colon nevadensis* Bauer, 1975
  - f. *Euphydryas colon paradoxa* McDunnough, 1927
- 701. *Euphydryas anicia* (E. Doubleday, [1847])
  - a. *Euphydryas anicia helvia* (Scudder, 1869)
  - b. *Euphydryas anicia anicia* (E. Doubleday, [1847])
  - c. *Euphydryas anicia howlandi* D. Stallings & Turner, 1947
  - d. *Euphydryas anicia hopfingeri* Gunder, 1934
  - e. *Euphydryas anicia bakeri* D. Stallings & Turner, 1945
  - f. *Euphydryas anicia effi* D. Stallings & Turner, 1945
  - g. *Euphydryas anicia windi* Gunder, 1932
  - h. *Euphydryas anicia maria* (Skinner, 1899)
  - i. *Euphydryas anicia brucei* (W. H. Edwards, 1888)
  - j. *Euphydryas anicia eurytion* (Mead, 1875)
  - k. *Euphydryas anicia wecoeut* M. Fisher, Spomer & Scott, 2006
  - l. *Euphydryas anicia alena* W. Barnes & Benjamin, 1926
  - m. *Euphydryas anicia magdalena* W. Barnes & McDunnough, 1918
  - n. *Euphydryas anicia hermosa* (W. G. Wright, 1905)
  - o. *Euphydryas anicia chuskae* (Ferris & R. Holland, 1980)
  - p. *Euphydryas anicia carmentis* W. Barnes & Benjamin, 1926
  - q. *Euphydryas anicia cloudcrofti* (Ferris & R. Holland, 1980)
  - r. *Euphydryas anicia capella* (W. Barnes, 1897)
  - s. *Euphydryas anicia bernadetta* Leussler, 1920
  - t. *Euphydryas anicia veazieae* Fender & Jewett, 1953
  - u. *Euphydryas anicia macyi* Fender & Jewett, 1953
  - v. *Euphydryas anicia wheeleri* (Hy. Edwards, 1881)
  - w. *Euphydryas anicia morandi* Gunder, 1928
  - x. *Euphydryas anicia variicolor* Baughman & Murphy, 1998
- 702. *Euphydryas phaeton* (Drury, 1773)
  - a. *Euphydryas phaeton phaeton* (Drury, 1773)
  - b. *Euphydryas phaeton ozarkae* Masters, 1968

New Tribe (Wahlberg *et al.*, in prep.)

#### POLADRYAS Bauer, 1961

- 703. *Poladryas minuta* (W. H. Edwards, 1861)
  - a. *Poladryas minuta minuta* (W. H. Edwards, 1861)
- 704. *Poladryas arachne* (W. H. Edwards, 1869)
  - a. *Poladryas arachne arachne* (W. H. Edwards, 1869)
  - b. *Poladryas arachne gilensis* (W. Holland, 1930)
  - c. *Poladryas arachne expedita* Austin, 1998
  - d. *Poladryas arachne nympha* (W. H. Edwards, 1884)
  - e. *Poladryas arachne monache* (J. A. Comstock, 1918)

#### CHLOSYPNE Butler, 1870

- 705. *Chlosyne janais* (Drury, 1782)
  - a. *Chlosyne janais janais* (Drury, 1782)
- 706. *Chlosyne definita* (E. Aaron, 1885)
  - a. *Chlosyne definita definita* (E. Aaron, 1885)
  - b. *Chlosyne definita anastasia* (Hemming, 1934)
- 707. *Chlosyne endeis* (Godman & Salvin, 1894)
  - a. *Chlosyne endeis pardelina* Scott, 1986
- 708. *Chlosyne melitaeoides* (C. Felder & R. Felder, 1867)
- 709. *Chlosyne eumeda* (Godman & Salvin, 1894)
- 710. *Chlosyne rosita* A. Hall, 1924



- a. *Chlosyne rosita browni* Bauer, 1961
- b. *Chlosyne rosita montana* A. Hall, 1924
- 711. *Chlosyne theona* (Ménétriés, 1855)
  - a. *Chlosyne theona thekla* (W. H. Edwards, 1870)
  - b. *Chlosyne theona bolli* (W. H. Edwards, 1877)
  - c. *Chlosyne theona chinatiensis* (Tinkham, 1944)
- 712. *Chlosyne cyneas* (Godman & Salvin, 1878)
- 713. *Chlosyne fulvia* (W. H. Edwards, 1879)
  - a. *Chlosyne fulvia fulvia* (W. H. Edwards, 1879)
  - b. *Chlosyne fulvia pariaensis* (M. Smith & Brock, 1988)
  - c. *Chlosyne fulvia coronado* (M. Smith & Brock, 1988)
- 714. *Chlosyne leanira* (C. Felder & R. Felder, 1860)
  - a. *Chlosyne leanira oregonensis* Bauer, 1975
  - b. *Chlosyne leanira leanira* (C. Felder & R. Felder, 1860)
  - c. *Chlosyne leanira obsoleta* (Hy. Edwards, 1877) †
  - d. *Chlosyne leanira nebularum* (Austin & M. Smith, 1998)
  - e. *Chlosyne leanira elegans* (Priestaf & J. Emmel, 1998)
  - f. *Chlosyne leanira wrighti* (W. H. Edwards, 1886)
  - g. *Chlosyne leanira alma* (Strecker, [1878])
  - h. *Chlosyne leanira basinensis* (Austin & M. Smith, 1998)
  - i. *Chlosyne leanira flavodorsalis* (Austin & M. Smith, 1998)
- 715. *Chlosyne nycteis* (E. Doubleday, [1847])
  - a. *Chlosyne nycteis pastoron* Pelham, 2008
  - b. *Chlosyne nycteis nycteis* (E. Doubleday, [1847])
  - c. *Chlosyne nycteis reversa* (F. Chermock & R. Chermock, 1940)
  - d. *Chlosyne nycteis drusus* (W. H. Edwards, 1884)
- 716. *Chlosyne gorgone* (Hübner, 1810)
  - a. *Chlosyne gorgone gorgone* (Hübner, 1810)
  - b. *Chlosyne gorgone carlota* (Reakirt, 1866)
- 717. *Chlosyne californica* (W. G. Wright, 1905)
- 718. *Chlosyne lacinia* (Geyer, 1837)
  - a. *Chlosyne lacinia crocale* (W. H. Edwards, 1874)
  - b. *Chlosyne lacinia adjutrix* Scudder, 1875
- 719. *Chlosyne harrisii* (Scudder, 1863)
  - a. *Chlosyne harrisii harrisii* (Scudder, 1863)
  - b. *Chlosyne harrisii albimontana* (Avinoff, 1930)
  - c. *Chlosyne harrisii liggetti* (Avinoff, 1930)
  - d. *Chlosyne harrisii hanhami* (J. Fletcher, 1903)
- 720. *Chlosyne hoffmanni* (Behr, 1863)
  - a. *Chlosyne hoffmanni hoffmanni* (Behr, 1863)
  - b. *Chlosyne hoffmanni segregata* (W. Barnes & McDunnough, 1918)
  - c. *Chlosyne hoffmanni manchada* Bauer, 1960
- 721. *Chlosyne whitneyi* (Behr, 1863)
- 722. *Chlosyne acastus* (W. H. Edwards, 1874) (1870)
  - a. *Chlosyne acastus sabina* (W. G. Wright, 1905)
  - b. *Chlosyne acastus neumoegei* (Skinner, 1895)
  - c. *Chlosyne acastus acastus* (W. H. Edwards, 1874) (1870)
  - d. *Chlosyne acastus arkanyon* M. Fisher & Scott, 2006
  - e. *Chlosyne acastus vallismortis* (J. Johnson, 1938) (emended)
  - f. *Chlosyne acastus robusta* Austin, 1998
  - g. *Chlosyne acastus waucoba* J. Emmel, T. Emmel & Mattoon, 1998
  - h. *Chlosyne acastus dorothyi* Bauer, 1975
  - i. *Chlosyne acastus sterope* (W. H. Edwards, 1870)
- 723. *Chlosyne gabbii* (Behr, 1863)
  - a. *Chlosyne gabbii gabbii* (Behr, 1863)
  - b. *Chlosyne gabbii atrifasciata* Hawks & J. Emmel, 1998
- 724. *Chlosyne palla* (Boisduval, 1852)
  - a. *Chlosyne palla eremita* (W. G. Wright, 1905)
  - b. *Chlosyne palla blackmorei* Pelham, 2008
  - c. *Chlosyne palla palla* (Boisduval, 1852)
  - d. *Chlosyne palla altasierra* J. Emmel, T. Emmel & Mattoon, 1998
  - e. *Chlosyne palla australomontana* J. Emmel, T. Emmel & Mattoon, 1998
  - f. *Chlosyne palla flavula* (W. Barnes & McDunnough, 1918)
  - g. *Chlosyne palla calydon* (W. Holland, 1931)
- 725. *Chlosyne damoetas* (Skinner, 1902)
  - a. *Chlosyne damoetas damoetas* (Skinner, 1902)
  - b. *Chlosyne damoetas windriver* Scott, 1998

c. *Chlosyne damoetas altalus* Scott, 1998**MICROTIA** H. Bates, 1864726. *Microtia elva* H. Bates, 1864a. *Microtia elva elva* H. Bates, 1864**DYMASIA** Higgins, 1960727. *Dymasia dymas* (W. H. Edwards, 1877)a. *Dymasia dymas dymas* (W. H. Edwards, 1877)b. *Dymasia dymas chara* (W. H. Edwards, [1884])c. *Dymasia dymas imperialis* (Bauer, 1959)**TEXOLA** Higgins, 1959728. *Texola elada* (Hewitson, 1868)a. *Texola elada ulrica* (W. H. Edwards, 1877)b. *Texola elada perse* (W. H. Edwards, 1882)Subtribe **Phyciodina** Higgins, 1981**TEGOSA** Higgins, 1981729. *Tegosa luka* Higgins, 1981**ANTHANASSA** Scudder, 1875730. *Anthanassa frisia* (Poey, 1832)a. *Anthanassa frisia frisia* (Poey, 1832)731. *Anthanassa tulcis* (H. Bates, 1864)732. *Anthanassa ptolyca* (H. Bates, 1864)a. *Anthanassa ptolyca ptolyca* (H. Bates, 1864)733. *Anthanassa texana* (W. H. Edwards, 1863)a. *Anthanassa texana texana* (W. H. Edwards, 1863)b. *Anthanassa texana seminole* (Skinner, 1911)734. *Anthanassa argentea* (Godman & Salvin, 1882)**PHYCIODES** Hübner, [1819]735. *Phyciodes graphica* (R. Felder, 1869)a. *Phyciodes graphica vesta* (W. H. Edwards, 1869)736. *Phyciodes picta* (W. H. Edwards, 1865)a. *Phyciodes picta picta* (W. H. Edwards, 1865)b. *Phyciodes picta canace* W. H. Edwards, 1871737. *Phyciodes orseis* W. H. Edwards, 1871a. *Phyciodes orseis orseis* W. H. Edwards, 1871b. *Phyciodes orseis herlani* Bauer, 1975738. *Phyciodes pallida* (W. H. Edwards, 1864)a. *Phyciodes pallida pallida* (W. H. Edwards, 1864)b. *Phyciodes pallida barnesi* Skinner, 1897739. *Phyciodes mylitta* (W. H. Edwards, 1861)a. *Phyciodes mylitta mylitta* (W. H. Edwards, 1861)b. *Phyciodes mylitta arizonensis* Bauer, 1975740. *Phyciodes phaon* (W. H. Edwards, 1864)a. *Phyciodes phaon phaon* (W. H. Edwards, 1864)b. *Phyciodes phaon jalapeno* Scott, 1998741. *Phyciodes tharos* (Drury, 1773)a. *Phyciodes tharos tharos* (Drury, 1773)b. *Phyciodes tharos orantain* Scott, 1998c. *Phyciodes tharos riocolorado* Scott, 1992742. *Phyciodes cocyta* (Cramer, 1777)a. *Phyciodes cocyta cocyta* (Cramer, 1777)b. *Phyciodes cocyta selenis* (W. Kirby, 1837)c. *Phyciodes cocyta diminutor* Scott, 1998d. *Phyciodes cocyta incognitus* Gatrell, 2004e. *Phyciodes cocyta pascoensis* W. G. Wright, 1905f. *Phyciodes cocyta arenacolor* Austin, 1998743. *Phyciodes batesii* (Reakirt, [1866])a. *Phyciodes batesii anasazi* Scott, 1994b. *Phyciodes batesii apsaalooke* Scott, 1994c. *Phyciodes batesii lakota* Scott, 1994d. *Phyciodes batesii saskatchewan* Scott, 2006

- e. *Phyciodes batesii batesii* (Reakirt, [1866])
- f. *Phyciodes batesii maconensis* Gatrell, 1998

744. *Phyciodes pulchella* (Boisduval, 1852)
- a. *Phyciodes pulchella tutchone* Scott, 1994
  - b. *Phyciodes pulchella owimba* Scott, 1998
  - c. *Phyciodes pulchella pulchella* (Boisduval, 1852)
  - d. *Phyciodes pulchella deltarufa* Scott, 1998
  - e. *Phyciodes pulchella montana* (Behr, 1863)
  - f. *Phyciodes pulchella vallis* Austin, 1998
  - g. *Phyciodes pulchella inornatus* Austin, 1998
  - h. *Phyciodes pulchella shoshoni* Scott, 1994
  - i. *Phyciodes pulchella camillus* W. H. Edwards, 1871
  - j. *Phyciodes pulchella sacramento* Scott, 2006

Subfamily **Charaxinae** Guenée, 1865

Tribe **Anaeni** Reuter, 1896

**ANAEA** Hübner, [1819]

745. *Anaea troglodyta* (Fabricius, 1775)
- a. *Anaea troglodyta floridalis* F. Johnson & W. Comstock, 1941
746. *Anaea aidea* (Guérin-Ménéville, [1844])
747. *Anaea andria* Scudder, 1875

**MEMPHIS** Hübner, [1819]

748. *Memphis glycerium* (E. Doubleday, [1849])
- a. *Memphis glycerium glycerium* (E. Doubleday, [1849])
749. *Memphis pithyusa* (R. Felder, 1869)
- a. *Memphis pithyusa pithyusa* (R. Felder, 1869)
750. *Memphis echemus* (E. Doubleday, [1849])
- a. *Memphis echemus echemus* (E. Doubleday, [1849])

Subfamily **Morphinae** Newman, 1834

Tribe **Morphini** Newman, 1834

Subtribe **Morphina** Newman, 1834

**MORPHO** [Fabricius], 1807

751. *Morpho polyphemus* Westwood, 1850
- a. *Morpho polyphemus polyphemus* Westwood, 1850

Subfamily **Satyrinae** Boisduval, [1833] (1820)

Tribe **Elymniini** Herrich-Schäffer, 1864

Subtribe **Lethina** Reuter, 1896

**LETHE** Hübner, [1819]

Subgenus **Enodia** Hübner, [1819]

752. *Lethe portlandia* (Fabricius, 1781)
- a. *Lethe portlandia floralae* (J. Heitzman & dos Passos, 1974)
  - b. *Lethe portlandia portlandia* (Fabricius, 1781)
  - c. *Lethe portlandia missarkae* (J. Heitzman & dos Passos, 1974)
753. *Lethe anthedon* A. H. Clark, 1936
- a. *Lethe anthedon anthedon* A. Clark, 1936
  - b. *Lethe anthedon borealis* A. Clark, 1936
754. *Lethe creola* (Skinner, 1897)

Subgenus **Satyrodes** Scudder, 1875

755. *Lethe eurydice* (Linnaeus, 1763)
- a. *Lethe eurydice eurydice* (Linnaeus, 1763)
  - b. *Lethe eurydice fumosus* (Leussler, 1916)
756. *Lethe appalachia* R. Chermock, 1947
- a. *Lethe appalachia appalachia* R. Chermock, 1947
  - b. *Lethe appalachia leeuwi* Gatrell & Arbogast, 1974



Tribe **Satyrini** Boisduval, [1833] (1820)Subtribe **Coenonymphina** Tutt, 1896**COENONYMPHA** Hübner, [1819]

757. *Coenonympha haydenii* (W. H. Edwards, 1872)
758. *Coenonympha tullia* (Müller, 1764)
- a. *Coenonympha tullia nipisiquit* McDunnough, 1939
  - b. *Coenonympha tullia mcisaaci* dos Passos, 1935
  - c. *Coenonympha tullia inornata* W. H. Edwards, 1861
  - d. *Coenonympha tullia benjamini* McDunnough, 1928
  - e. *Coenonympha tullia yukonensis* W. Holland, 1900
  - f. *Coenonympha tullia mixturata* Alphéraky, 1897
  - g. *Coenonympha tullia kodiak* W. H. Edwards, 1869
  - h. *Coenonympha tullia insulanus* McDunnough, 1928
  - i. *Coenonympha tullia yontocket* Porter & Mattoon, 1989
  - j. *Coenonympha tullia californica* Westwood, [1851]
  - k. *Coenonympha tullia eryngii* Hy. Edwards, 1877
  - l. *Coenonympha tullia eunomia* Dornfeld, 1967
  - m. *Coenonympha tullia columbiana* McDunnough, 1928
  - n. *Coenonympha tullia ampelos* W. H. Edwards, 1871
  - o. *Coenonympha tullia mono* Burdick, 1942
  - p. *Coenonympha tullia elko* W. H. Edwards, 1881
  - q. *Coenonympha tullia pseudobrenda* Austin & R. Gray, 1998
  - r. *Coenonympha tullia ochracea* W. H. Edwards, 1861
  - s. *Coenonympha tullia subfusca* W. Barnes & Benjamin, 1926
  - t. *Coenonympha tullia furcae* W. Barnes & Benjamin, 1926
  - u. *Coenonympha tullia mackenziei* Davenport, 1936

Subtribe **Euptychiina** Reuter, 1896**CYLLOPSIS** R. Felder, 1869

759. *Cyllopsis pyracmon* (Butler, [1867])
- a. *Cyllopsis pyracmon henshawi* (W. H. Edwards, 1876)
760. *Cyllopsis pertepida* (Dyar, 1912)
- a. *Cyllopsis pertepida dorothea* (Nabokov, 1942)
  - b. *Cyllopsis pertepida maniola* (Nabokov, 1942)
  - c. *Cyllopsis pertepida avicula* (Nabokov, 1942)
761. *Cyllopsis gemma* (Hübner, [1809])
- a. *Cyllopsis gemma gemma* (Hübner, [1809])
  - b. *Cyllopsis gemma freemani* (D. Stallings & Turner, 1947)

**PARAMACERA** Butler, 1868

762. *Paramacera xicaque* (Reakirt, [1867])
- a. *Paramacera xicaque allyni* L. Miller, 1972

**HERMEUPTYCHIA** Forster, 1964

763. *Hermeuptychia sosybius* (Fabricius, 1793)
764. *Hermeuptychia hermes* (Fabricius, 1775)

**NEONYMPHA** Hübner, 1818

765. *Neonympha areolatus* (J. E. Smith, 1797)
766. *Neonympha helicta* (Hübner, [1808])
- a. *Neonympha helicta dadensis* Gatrell, 1999
  - b. *Neonympha helicta helicta* (Hübner, [1808])
  - c. *Neonympha helicta septentrionalis* W. Davis, 1924
767. *Neonympha mitchellii mitchellii* French, 1889
- a. *Neonympha mitchellii mitchellii* French, 1889
  - b. *Neonympha mitchellii francisci* Parshall & Kral, 1989

**MEGISTO** Hübner, [1819]

768. *Megisto cymela* (Cramer, 1777)
- a. *Megisto cymela cymela* (Cramer, 1777)
  - b. *Megisto cymela viola* (Maynard, 1891)
769. *Megisto rubricata* (W. H. Edwards, 1871)
- a. *Megisto rubricata rubricata* (W. H. Edwards, 1871)
  - b. *Megisto rubricata smithorum* (Wind, 1946)

c. *Megisto rubricata cheneyorum* (R. Chermock, 1949)Subtribe **Maniolina** Verity, 1953**CERCYONIS** Scudder, 1875

770. *Cercyonis pegala* (Fabricius, 1775)  
 a. *Cercyonis pegala pegala* (Fabricius, 1775)  
 b. *Cercyonis pegala alope* (Fabricius, 1793)  
 c. *Cercyonis pegala texana* (W. H. Edwards, 1880)  
 d. *Cercyonis pegala olympus* (W. H. Edwards, 1880)  
 e. *Cercyonis pegala nephele* (W. Kirby, 1837)  
 f. *Cercyonis pegala ino* G. Hall, 1924  
 g. *Cercyonis pegala incana* (W. H. Edwards, 1880)  
 h. *Cercyonis pegala boopis* (Behr, 1864)  
 i. *Cercyonis pegala ariane* (Boisduval, 1852)  
 j. *Cercyonis pegala gabbii* (W. H. Edwards, 1870)  
 k. *Cercyonis pegala carsonensis* Austin, 1992  
 l. *Cercyonis pegala walkerensis* Austin, 1992  
 m. *Cercyonis pegala wheeleri* (W. H. Edwards, 1873) †  
 n. *Cercyonis pegala paucilineatus* Austin, 1992  
 o. *Cercyonis pegala pluvialis* Austin, 1992  
 p. *Cercyonis pegala stephensi* (W. G. Wright, 1905)  
 q. *Cercyonis pegala paludum* Austin, 1992  
 r. *Cercyonis pegala utahensis* Austin, 1992
771. *Cercyonis meadii* (W. H. Edwards, 1872)  
 a. *Cercyonis meadii meadii* (W. H. Edwards, 1872)  
 b. *Cercyonis meadii alamosa* T. Emmel & J. Emmel, 1969  
 c. *Cercyonis meadii melania* (Wind, 1946)  
 d. *Cercyonis meadii damei* W. Barnes & Benjamin, 1926
772. *Cercyonis sthenele* (Boisduval, 1852)  
 a. *Cercyonis sthenele masoni* Cross, 1937  
 b. *Cercyonis sthenele paulus* (W. H. Edwards, 1879)  
 c. *Cercyonis sthenele sineocellata* Austin & J. Emmel, 1998  
 d. *Cercyonis sthenele silvestris* (W. H. Edwards, 1861)  
 e. *Cercyonis sthenele behrii* F. Grinnell, 1905  
 f. *Cercyonis sthenele sthenele* (Boisduval, 1852) †  
 g. *Cercyonis sthenele hypoleuca* Hawks & J. Emmel, 1998
773. *Cercyonis oetus* (Boisduval, 1869)  
 a. *Cercyonis oetus charon* (W. H. Edwards, 1872)  
 b. *Cercyonis oetus phocus* (W. H. Edwards, 1874)  
 c. *Cercyonis oetus oetus* (Boisduval, 1869)  
 d. *Cercyonis oetus pallescens* T. Emmel & J. Emmel, 1971  
 e. *Cercyonis oetus alkalorum* Austin, 1998

Subtribe **Pronophilina** Reuter, 1896**GYROCHEILUS** Butler, 1867

774. *Gyrocheilus patrobas* (Hewitson, 1862)  
 a. *Gyrocheilus patrobas tritonia* (W. H. Edwards, 1874)

Subtribe **Erebiina** Tutt, 1896**EREBIA** Dalman, 1816

775. *Erebia videri* Elwes, 1898
776. *Erebia rossii* (J. Curtis, 1835)  
 a. *Erebia rossii ornata* Leussler, 1935  
 b. *Erebia rossii rossii* (J. Curtis, 1835)  
 c. *Erebia rossii gabrieli* dos Passos, 1949  
 d. *Erebia rossii kuskokuima* W. Holland, 1931
777. *Erebia disa* (Thunberg, 1791)  
 a. *Erebia disa steckeri* W. Holland, 1930  
 b. *Erebia disa subarctica* McDunnough, 1937
778. *Erebia mancinus* E. Doubleday, [1849]
779. *Erebia magdalena* Strecker, 1880  
 a. *Erebia magdalena magdalena* Strecker, 1880  
 b. *Erebia magdalena saxicola* Hilchie, 1990
780. *Erebia mackinleyensis* Gunder, 1932

- 781. *Erebia fasciata* Butler, 1868
  - a. *Erebia fasciata fasciata* Butler, 1868
  - b. *Erebia fasciata avinoffi* W. Holland, 1930
- 782. *Erebia epipsodea* Butler, 1868
  - a. *Erebia epipsodea brucei* Elwes, 1889
  - b. *Erebia epipsodea epipsodea* Butler, 1868
  - c. *Erebia epipsodea sineocellata* Skinner, 1889
  - d. *Erebia epipsodea remingtoni* P. Ehrlich, 1952
- 783. *Erebia discoidalis* (W. Kirby, 1837)
  - a. *Erebia discoidalis discoidalis* (W. Kirby, 1837)
- 784. *Erebia pawloskii* Ménétriés, 1859
  - a. *Erebia pawloskii alaskensis* W. Holland, 1900
  - b. *Erebia pawloskii canadensis* B. Warren, 1931
  - c. *Erebia pawloskii ethela* W. H. Edwards, 1891
  - d. *Erebia pawloskii demmia* B. Warren, 1936
- 785. *Erebia youngi* W. Holland, 1900
  - a. *Erebia youngi herscheli* Leussler, 1935
  - b. *Erebia youngi youngi* W. Holland, 1900
  - c. *Erebia youngi rileyi* dos Passos, 1947
- 786. *Erebia lafontainei* Troubridge & Philip, 1983
- 787. *Erebia occulta* Roos & Kimmich, 1983
  - a. *Erebia occulta occulta* Roos & Kimmich, 1983
- 788. *Erebia callias* W. H. Edwards, 1871
  - a. *Erebia callias callias* W. H. Edwards, 1871

Subtribe *Satyrina* Boisduval, [1833] (1820)

#### NEOMINOIS Scudder, 1875

- 789. *Neominois ridingsii* (W. H. Edwards, 1865)
  - a. *Neominois ridingsii minimus* Austin, 1986
  - b. *Neominois ridingsii wyomingo* (Scott, 1998)
  - c. *Neominois ridingsii ridingsii* (W. H. Edwards, 1865)
  - d. *Neominois ridingsii neomexicanus* Austin, 1986
  - e. *Neominois ridingsii stretchii* (W. H. Edwards, 1870)
  - f. *Neominois ridingsii pallidus* Austin, 1986

#### OENEIS Hübner, [1819]

Subgenus *Oeneis* Hübner, [1819]

- 790. *Oeneis philipi* Troubridge, 1988
- 791. *Oeneis polixenes* (Fabricius, 1775)
  - a. *Oeneis polixenes katahdin* (Newcomb, 1901)
  - b. *Oeneis polixenes polixenes* (Fabricius, 1775)
  - c. *Oeneis polixenes subhyalina* (J. Curtis, 1835)
  - d. *Oeneis polixenes beringianus* Kurentsov, 1970
  - e. *Oeneis polixenes woodi* Troubridge & Parshall, 1988
  - f. *Oeneis polixenes yukonensis* Gibson, 1920
  - g. *Oeneis polixenes brucei* (W. H. Edwards, 1891)
- 792. *Oeneis jutta* (Hübner, [1806])
  - a. *Oeneis jutta balder* (Guérin-Méneville, [1832])
  - b. *Oeneis jutta terraenovae* dos Passos, 1935 (emended)
  - c. *Oeneis jutta ascerta* Masters & Sorenson, 1968
  - d. *Oeneis jutta ridingiana* F. Chermock & R. Chermock, 1940
  - e. *Oeneis jutta harperi* dos Passos, [1977]
  - f. *Oeneis jutta leussleri* Bryant, 1935
  - g. *Oeneis jutta alaskensis* W. Holland, 1900
  - h. *Oeneis jutta chermocki* Wyatt, 1965
  - i. *Oeneis jutta reducta* McDunnough, 1929
- 793. *Oeneis melissa* (Fabricius, 1775)
  - a. *Oeneis melissa semidea* (Say, 1828)
  - b. *Oeneis melissa melissa* (Fabricius, 1775)
  - c. *Oeneis melissa semplei* W. Holland, 1930
  - d. *Oeneis melissa assimilis* Butler, 1868
  - e. *Oeneis melissa gibsoni* W. Holland, 1930
  - f. *Oeneis melissa atlinensis* C. Guppy & J. Shepard, 2001
  - g. *Oeneis melissa beanii* Elwes, 1893
  - h. *Oeneis melissa lucilla* W. Barnes & McDunnough, 1918
- 794. *Oeneis alpina* Kurentsov, 1970



- a. *Oeneis alpina excubitor* Troubridge, Philip, Scott, & J. Shepard, 1982
- 795. *Oeneis bore* (Esper, 1789)
  - a. *Oeneis bore taygete* Geyer, [1830]
  - b. *Oeneis bore gaspeensis* dos Passos, 1949
  - c. *Oeneis bore hanburyi* Watkins, 1928
  - d. *Oeneis bore mckinleyensis* dos Passos, 1949
  - e. *Oeneis bore fordii* dos Passos, 1949
  - f. *Oeneis bore edwardsi* dos Passos, 1949
- 796. *Oeneis chryxus* (E. Doubleday, [1849])
  - a. *Oeneis chryxus strigulosa* McDunnough, 1934
  - b. *Oeneis chryxus calais* (Scudder, 1865)
  - c. *Oeneis chryxus caryi* Dyar, 1904
  - d. *Oeneis chryxus chryxus* (E. Doubleday, [1849])
  - e. *Oeneis chryxus altacordillera* Scott, 2006
  - f. *Oeneis chryxus valerata* Burdick, 1958
  - g. *Oeneis chryxus stanislaus* Hovanitz, 1937
  - h. *Oeneis chryxus ivalida* (Mead, 1878)
- 797. *Oeneis alberta* Elwes, 1893
  - a. *Oeneis alberta alberta* Elwes, 1893
  - b. *Oeneis alberta ojibwe* Scott & Kondla, 2006
  - c. *Oeneis alberta osleri* Skinner, 1911
  - d. *Oeneis alberta capulinensis* F. Brown, 1970
  - e. *Oeneis alberta daura* (Strecker, 1894)
- 798. *Oeneis nevadensis* (C. Felder & R. Felder, 1867)
  - a. *Oeneis nevadensis gigas* Butler, 1868
  - b. *Oeneis nevadensis nevadensis* (C. Felder & R. Felder, 1867)
  - c. *Oeneis nevadensis iduna* (W. H. Edwards, 1874)
- 799. *Oeneis macounii* (W. H. Edwards, 1885)

Subgenus *Protoeneis* Gorbunov, 2001

- 800. *Oeneis uhleri* (Reakirt, 1866)
  - a. *Oeneis uhleri reinthali* F. Brown, 1953
  - b. *Oeneis uhleri uhleri* (Reakirt, 1866)
  - c. *Oeneis uhleri varuna* (W. H. Edwards, 1882)
  - d. *Oeneis uhleri nahanni* Dyar, 1904
  - e. *Oeneis uhleri cairnesi* Gibson, 1920



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- LARSEN, T. B. 1990. The butterflies of Egypt, Apollo Books, Svendborg. 112 pp. Figurny-Puchalska E., R. M.
- E. GADEBERG & J. J. BOOMSMA. 2000. Comparison of genetic population structure of the large blue butterflies *Maculinea nausithous* and *M. teleius*. Biodiversity Conservation 9: 419-432.
- THOMAS, J. A., R. T. CLARKE, G. W. ELMES & M. E. HOCHBERG. 1998a. Population dynamics in the genus *Maculinea* (Lepidoptera: Lycaenidae), pp. 262-290. In: Dempster, J. P. & I. F. G. McLean (eds.), Insect populations. Kluwer Academic Publishers, Dordrecht.

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